

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P651642

Luminaire Tested: **GALN-SA9D-840-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651642
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-840-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50285.9 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G4

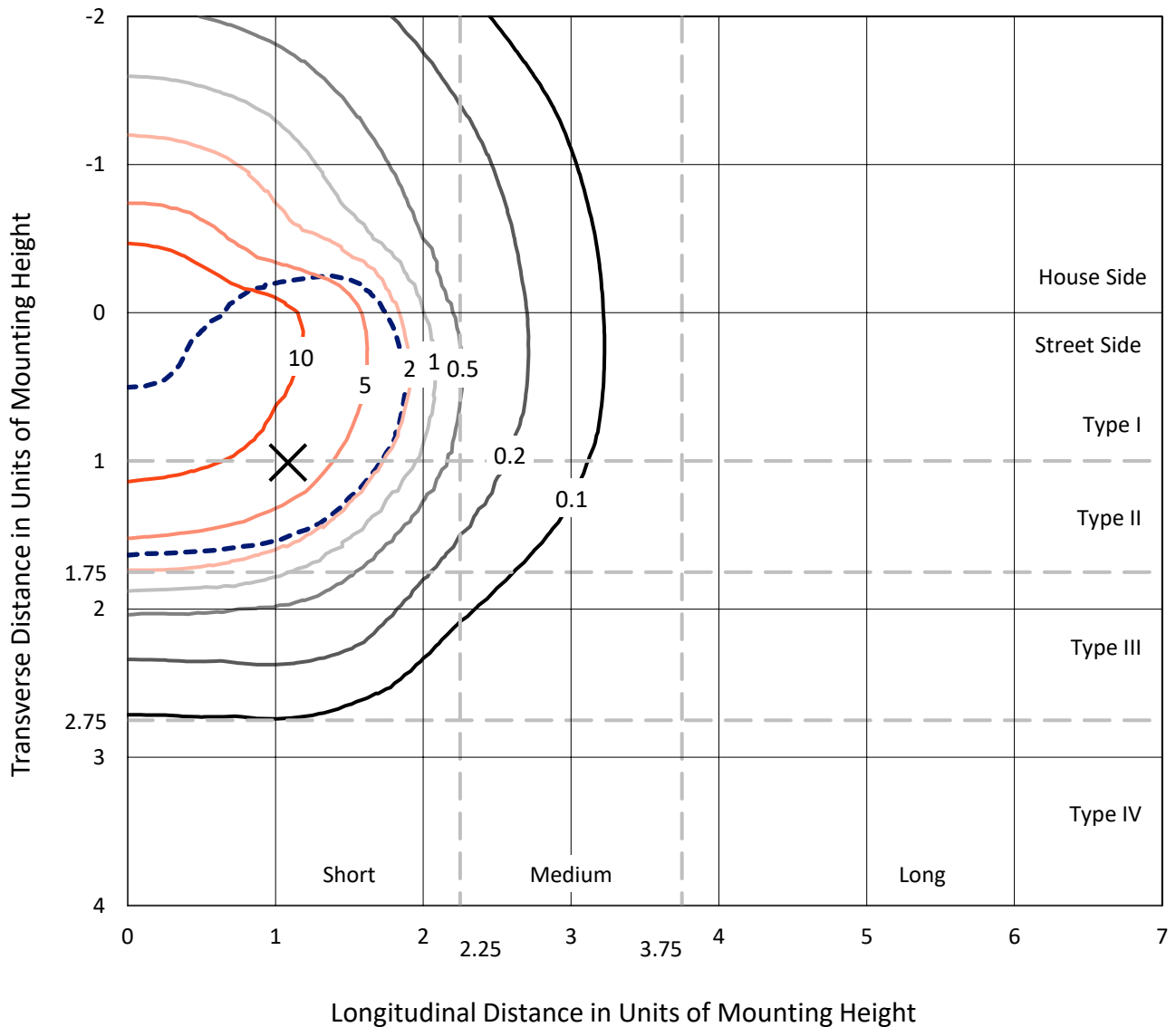
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

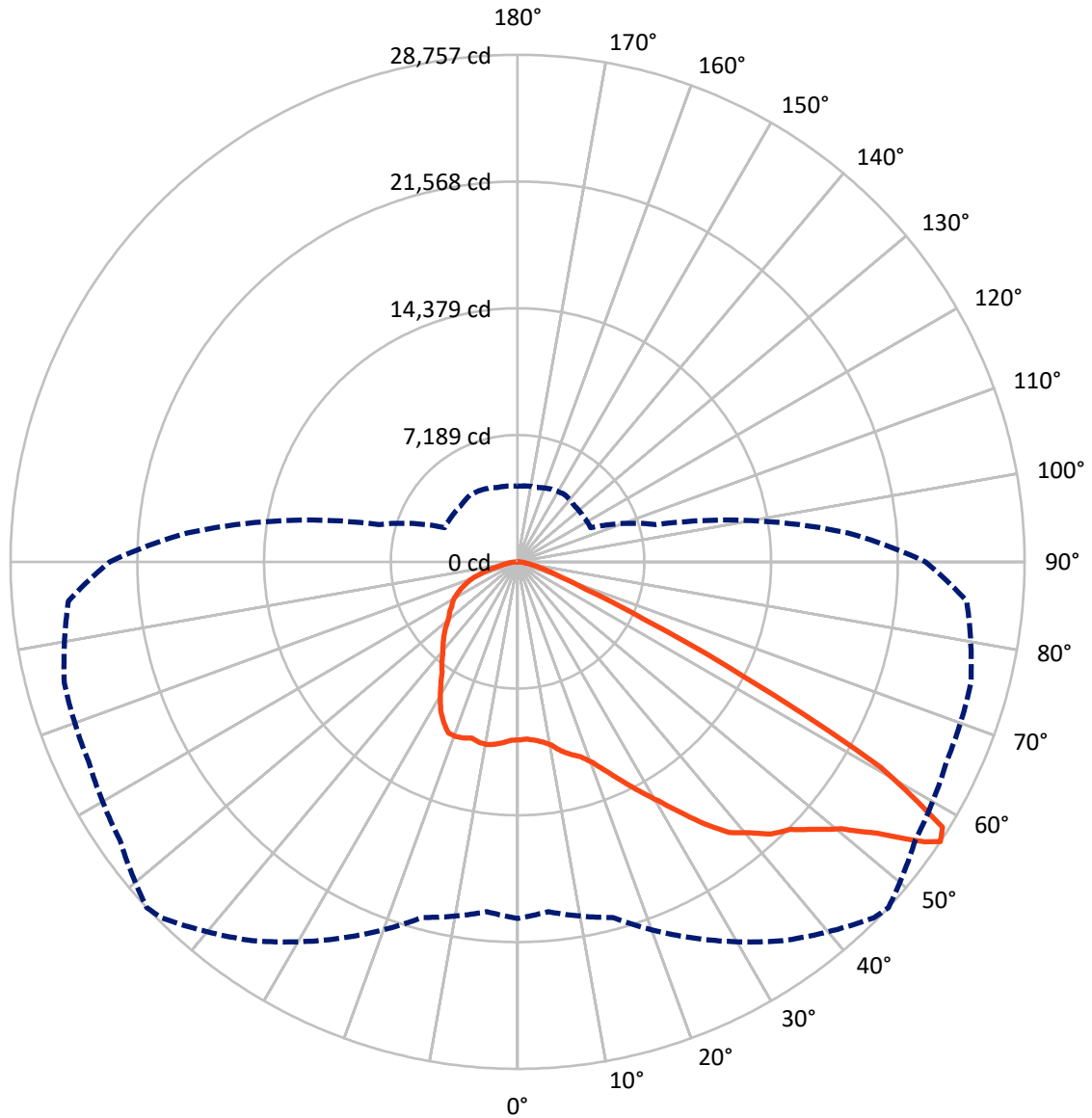
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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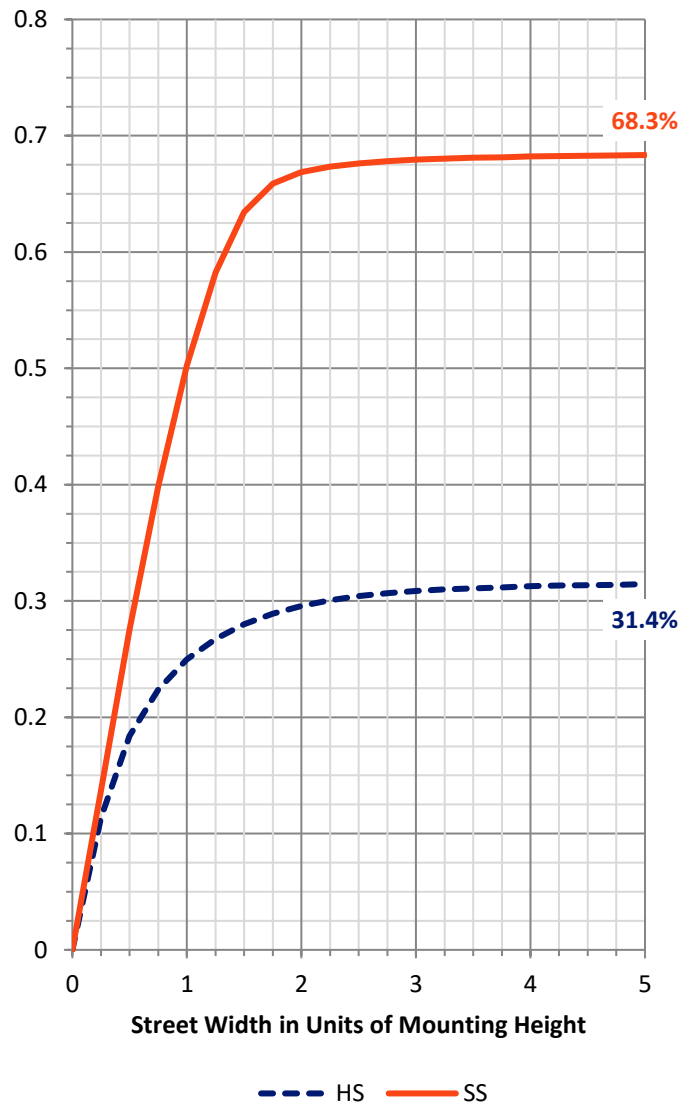
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15935.0	0.0	15935.0
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	34350.9	0.0	34350.9
	% Fixture	68.3	0.0	68.3
Total	Lumens	50285.9	0.0	50285.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	984.2	2.0
10°-20°	3104.6	6.2
20°-30°	5488.3	10.9
30°-40°	8243.2	16.4
40°-50°	11313.0	22.5
50°-60°	13477.9	26.8
60°-70°	5767.7	11.5
70°-80°	1632.3	3.2
80°-90°	274.7	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	50285.9	100.0
0°-180°	50285.9	100.0

Coefficient of Utilization

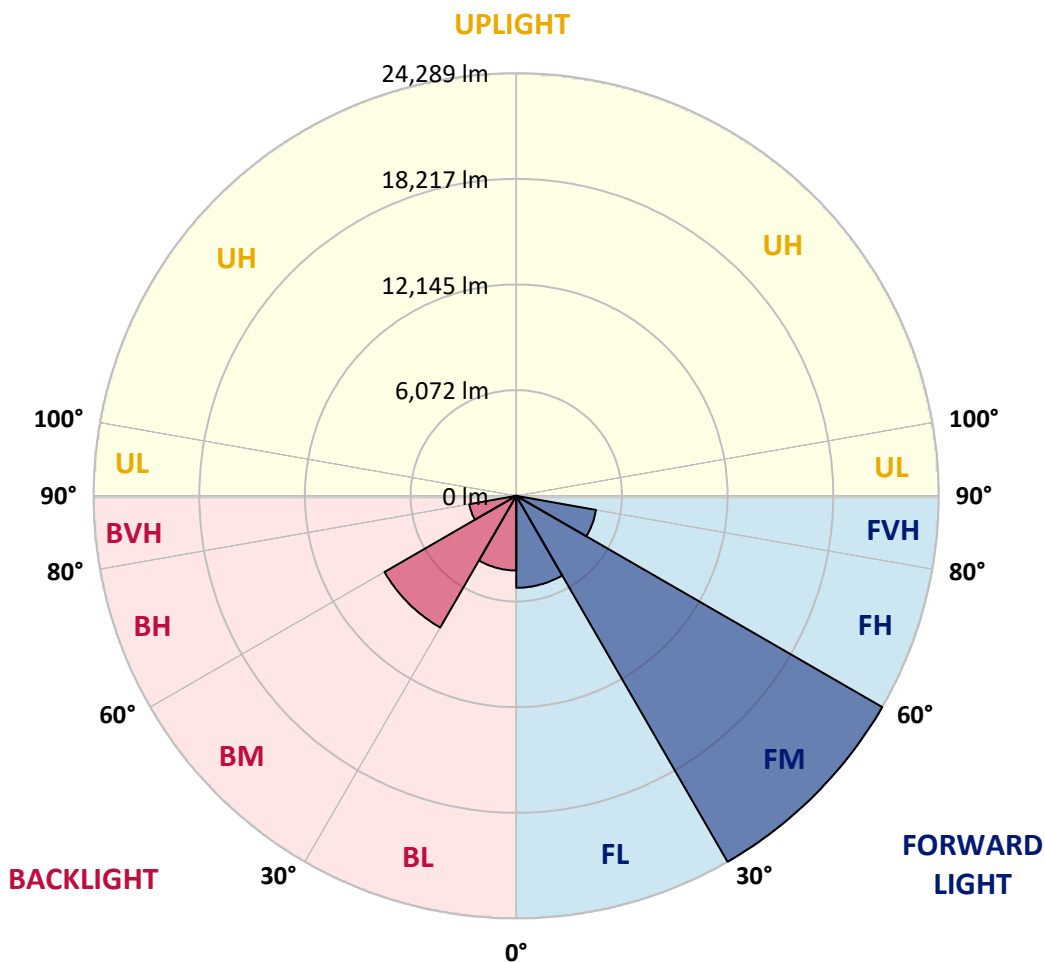


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5286.8	10.5			
FM (30°-60°)	24289.3	48.3			
FH (60°-80°)	4658.3	9.3			G2/5000
FVH (80°-90°)	116.6	0.2			G2/225
BL (0°-30°)	4290.4	8.5	B4/5000		
BM (30°-60°)	8744.9	17.4	B5		
BH (60°-80°)	2741.7	5.5	B4/5000		G4/5000
BVH (80°-90°)	158.1	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	10100.9	10100.9	10100.9	10100.9	10100.9	10100.9	10100.9	10100.9	10100.9	10100.9	10100.9
2.5°	10062.4	10043.2	10030.4	10133.0	10094.5	10100.9	10062.4	10100.9	10126.6	10068.9	10152.2
5°	10043.2	10100.9	10049.6	10081.7	10165.1	10139.4	10165.1	10242.0	10222.8	10203.5	10177.9
7.5°	10222.8	10229.2	10267.7	10280.5	10306.1	10280.5	10319.0	10389.5	10370.3	10261.2	10274.1
10°	10479.3	10492.1	10498.5	10569.1	10614.0	10620.4	10575.5	10511.3	10504.9	10652.4	10549.8
12.5°	10774.3	10742.3	10819.2	10844.9	10896.2	10953.9	11011.6	10876.9	10960.3	10966.7	10844.9
15°	11204.0	11236.1	11146.3	11146.3	11165.5	11171.9	11332.2	11268.1	11255.3	11184.8	11236.1
17.5°	11845.3	11627.2	11620.9	11531.0	11518.3	11569.6	11627.2	11678.5	11851.7	11710.7	11434.9
20°	12313.5	12364.8	12178.8	12069.8	12089.0	12204.5	12146.7	12377.6	12499.4	12268.6	11999.2
22.5°	13140.8	12967.6	13012.5	12768.8	12788.1	12909.9	12903.5	13140.8	13211.4	12845.8	12454.6
25°	13698.8	13653.9	13692.3	13500.0	13525.6	13621.8	13775.7	14166.9	14051.5	13647.5	12743.2
27.5°	14513.2	14423.5	14391.4	14320.9	14295.2	14551.7	14731.3	15148.2	15064.7	14474.8	13256.3
30°	15347.0	15289.2	15321.3	15032.7	15135.3	15680.4	15731.7	16302.5	16264.1	15225.1	13827.0
32.5°	15924.2	15956.2	16014.0	15853.6	16308.9	16745.1	16918.2	17566.0	17598.0	16514.2	14930.1
35°	16854.1	16745.1	16777.1	16963.1	17174.7	17970.0	18252.2	18681.9	18951.3	17867.4	15988.3
37.5°	17437.7	17553.1	17418.5	17713.5	18265.0	19220.6	19477.1	19919.7	20201.8	19201.4	17431.3
40°	18348.3	18162.4	18258.6	18470.2	19034.6	20278.8	20208.2	20663.5	20753.4	20336.5	18778.1
42.5°	19329.6	19239.8	19105.2	19586.1	20060.7	20965.0	21106.1	20894.5	21349.8	21446.0	20702.1
45°	20503.2	20612.2	20631.5	20644.4	21061.2	21850.0	21657.6	21471.7	21997.5	22696.6	21894.9
47.5°	21593.5	21247.2	21497.3	21843.6	22433.7	22440.1	22664.5	22222.0	22780.0	23402.1	22972.3
50°	21959.1	21792.3	22125.8	22780.0	23690.6	23786.8	23812.5	23184.0	23472.6	23966.4	23344.3
52.5°	21818.0	21760.3	22613.2	23626.5	24960.5	25447.9	25576.2	24800.2	24960.5	24736.0	24165.2
55°	21144.6	21317.8	22177.1	24242.2	26288.1	27795.1	28038.9	27057.6	26037.9	26211.0	25582.5
56°	20221.1	19919.7	20881.6	23543.1	26230.3	28558.3	28757.2	27532.2	26839.6	26615.1	25569.8
57.5°	17155.6	16764.3	18027.8	21183.0	24774.5	28269.7	28417.2	27731.0	26704.9	26249.5	23703.5
60°	10043.2	10235.6	11838.9	14609.4	19111.6	23177.6	23671.4	24171.6	23485.4	21446.0	17642.9
62.5°	4848.4	4726.6	5874.6	8375.8	11646.5	14795.5	14647.9	16052.4	16822.0	15237.9	11139.9
65°	2539.7	2526.9	3206.6	4572.7	6400.4	7772.9	7907.6	8664.3	9722.5	7849.8	5656.5
67.5°	1866.3	1917.6	2257.5	3213.0	4117.3	4200.7	4181.5	4559.8	4662.4	3944.2	3476.0
70°	1462.2	1487.9	1738.0	2443.4	3065.5	2744.9	2687.2	2732.1	3033.5	3161.7	3007.8
72.5°	1058.2	1083.9	1295.5	1648.2	1917.6	1872.7	1911.2	2161.3	2533.3	2667.9	2507.6
75°	705.4	724.7	840.2	1006.8	1135.2	1224.9	1295.5	1584.1	1930.4	2007.4	1930.4
77.5°	487.4	506.6	583.6	711.9	724.7	782.4	808.0	942.8	1154.4	1250.6	1199.3
80°	275.8	275.8	314.3	365.6	448.9	525.9	538.7	647.7	743.9	808.0	820.9
82.5°	128.3	134.6	166.8	224.5	295.0	365.6	378.4	448.9	519.5	583.6	602.8
85°	64.2	70.6	96.2	134.6	179.6	218.1	211.7	218.1	230.9	218.1	224.5
87.5°	19.3	19.3	25.7	32.0	25.7	32.0	32.0	38.5	44.9	51.3	57.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10100.9	10100.9	10100.9	10100.9	10100.9	10100.9	10100.9	10100.9	10100.9	10100.9	10100.9
2.5°	10158.6	10177.9	10049.6	10171.5	10126.6	10120.2	10209.9	10197.1	10229.2	10216.4	10139.4
5°	10165.1	10120.2	10254.8	10133.0	10190.7	10312.5	10229.2	10421.6	10325.4	10389.5	10248.4
7.5°	10363.9	10376.7	10351.0	10402.3	10376.7	10434.4	10389.5	10434.4	10357.4	10363.9	10492.1
10°	10537.0	10498.5	10543.4	10479.3	10524.2	10504.9	10402.3	10370.3	10395.9	10363.9	10447.2
12.5°	10857.6	10787.2	10755.0	10678.1	10626.8	10434.4	10274.1	10184.3	10306.1	10325.4	10286.9
15°	11184.8	11191.2	11043.7	10870.5	10549.8	10261.2	10299.7	10331.8	10331.8	10383.1	10286.9
17.5°	11390.0	11390.0	11255.3	10908.9	10581.9	10415.2	10376.7	10274.1	10184.3	10171.5	10165.1
20°	11749.1	11640.1	11332.2	10902.6	10569.1	10492.1	10203.5	9959.8	9773.8	9709.7	9703.3
22.5°	12159.6	11883.8	11454.1	10915.4	10549.8	10440.8	9902.1	9536.5	9203.1	9061.9	9081.2
25°	12538.0	12095.4	11524.6	10857.6	10479.3	9953.4	9350.6	8843.9	8497.6	8382.2	8324.5
27.5°	12800.9	12319.9	11524.6	10908.9	10216.4	9408.3	8792.6	8144.8	7843.4	7766.5	7779.3
30°	13153.7	12602.0	11723.5	10800.0	9690.4	8702.8	7965.3	7542.0	7362.5	7298.3	7343.2
32.5°	13981.0	13339.6	11999.2	10537.0	9068.3	7997.3	7400.9	7163.6	6900.7	6772.4	6727.5
35°	14878.8	14038.6	12268.6	10094.5	8369.3	7356.1	6984.1	6766.0	6451.7	6310.7	6336.3
37.5°	16148.6	14936.5	12287.9	9363.4	7612.6	6996.9	6657.0	6317.1	6060.6	5842.5	5778.3
40°	17861.0	16161.5	12242.9	8593.8	7003.3	6573.6	6323.5	5900.2	5611.7	5457.7	5489.8
42.5°	19368.1	17598.0	12057.0	7721.6	6451.7	6285.0	6002.8	5586.0	5303.8	5143.5	5130.6
45°	20637.9	18656.2	11704.2	6977.6	5990.0	5964.4	5637.3	5316.6	5092.2	4944.7	5008.7
47.5°	21811.6	19509.2	11171.9	6233.7	5566.7	5618.0	5303.8	5105.0	4963.9	4829.2	4822.8
50°	22234.9	19496.4	10703.7	5618.0	5226.8	5201.2	5188.4	4976.7	4829.2	4713.7	4765.1
52.5°	22940.3	19714.4	10197.1	5194.8	4919.0	4925.4	4970.3	4816.4	4649.6	4579.1	4643.2
55°	23953.6	19746.5	9081.2	4700.9	4662.4	4707.3	4707.3	4604.7	4463.6	4405.9	4373.9
56°	23126.2	18790.9	8144.8	4572.7	4534.2	4534.2	4656.0	4540.6	4367.5	4322.6	4284.1
57.5°	21330.5	16462.9	6817.3	4418.8	4361.0	4450.8	4514.9	4393.1	4232.8	4168.7	4207.1
60°	14712.0	11139.9	5124.2	4085.2	4085.2	4232.8	4284.1	4104.5	4033.9	4027.5	3976.2
62.5°	8587.4	6490.2	4008.3	3783.8	3796.7	3918.5	3957.0	3854.4	3764.6	3873.6	3924.9
65°	4553.4	3873.6	3437.5	3463.2	3469.5	3565.8	3732.5	3726.1	3719.7	3751.8	3758.2
67.5°	3296.4	3219.4	3123.3	3097.6	3110.4	3181.0	3347.8	3476.0	3469.5	3392.6	3334.9
70°	2937.3	2828.3	2770.5	2777.0	2725.7	2809.0	2943.7	3027.1	2879.6	2789.8	2751.3
72.5°	2443.4	2411.4	2372.9	2379.4	2276.8	2257.5	2103.6	2103.6	2065.1	2039.4	2084.3
75°	1866.3	1853.4	1872.7	1840.6	1731.6	1616.1	1526.3	1443.0	1314.7	1263.4	1237.8
77.5°	1180.0	1218.5	1263.4	1192.9	1148.0	1064.6	974.8	891.5	788.9	731.1	731.1
80°	801.6	833.8	865.8	852.9	801.6	724.7	654.1	564.4	493.8	448.9	442.5
82.5°	609.2	635.0	679.8	628.5	577.2	513.1	455.3	391.2	327.1	275.8	275.8
85°	218.1	250.1	275.8	301.4	320.7	327.1	282.2	230.9	185.9	147.5	141.1
87.5°	57.7	64.2	70.6	64.2	64.2	64.2	70.6	64.2	57.7	44.9	44.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)