

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: P532404

Luminaire Tested: **GALN-SA7D-730-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532404
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-SA7D-730-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 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: 41838 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

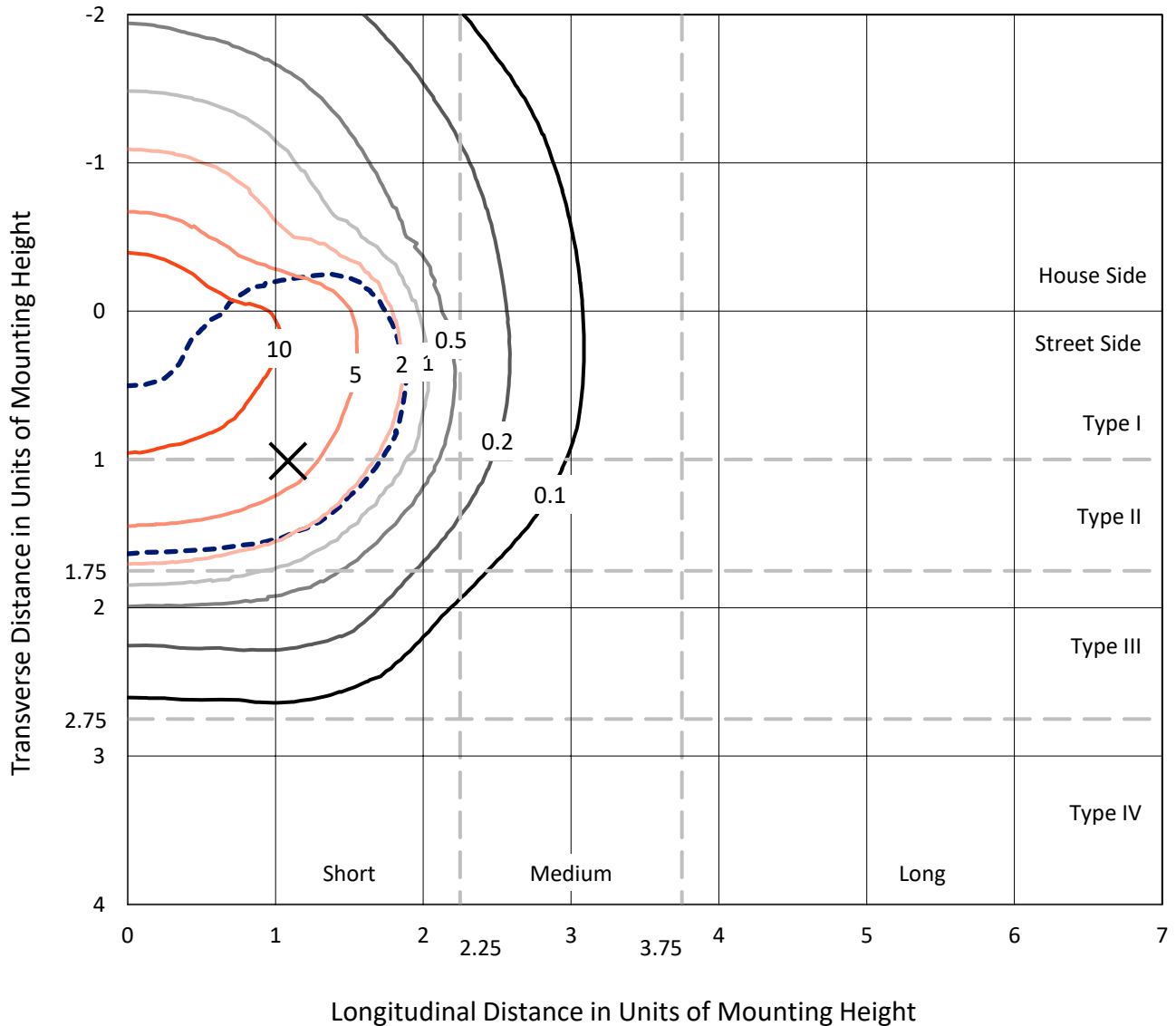
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

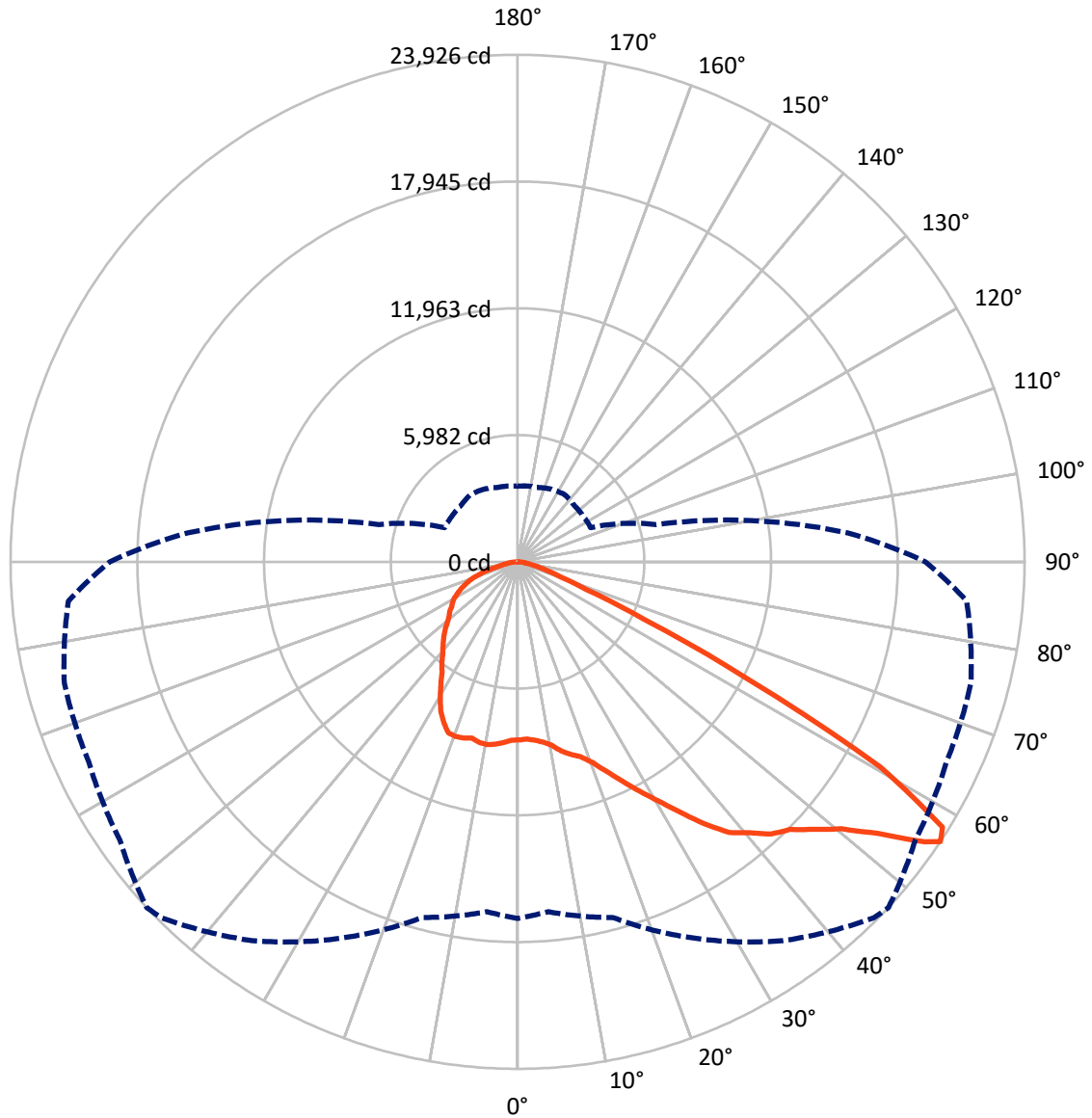
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 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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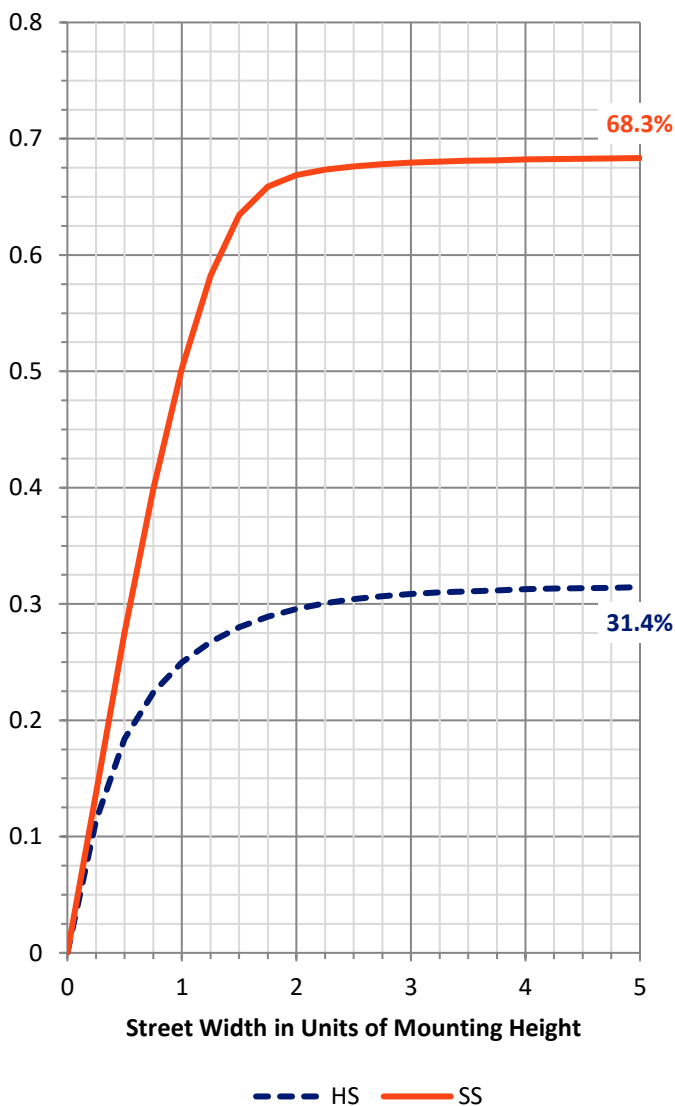
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13258.0	0.0	13258.0
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	28580.0	0.0	28580.0
	% Fixture	68.3	0.0	68.3
Total	Lumens	41838.0	0.0	41838.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	818.9	2.0
10°-20°	2583.1	6.2
20°-30°	4566.3	10.9
30°-40°	6858.4	16.4
40°-50°	9412.4	22.5
50°-60°	11213.7	26.8
60°-70°	4798.8	11.5
70°-80°	1358.0	3.2
80°-90°	228.5	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°	41838.0	100.0
0°-180°	41838.0	100.0

Coefficient of Utilization



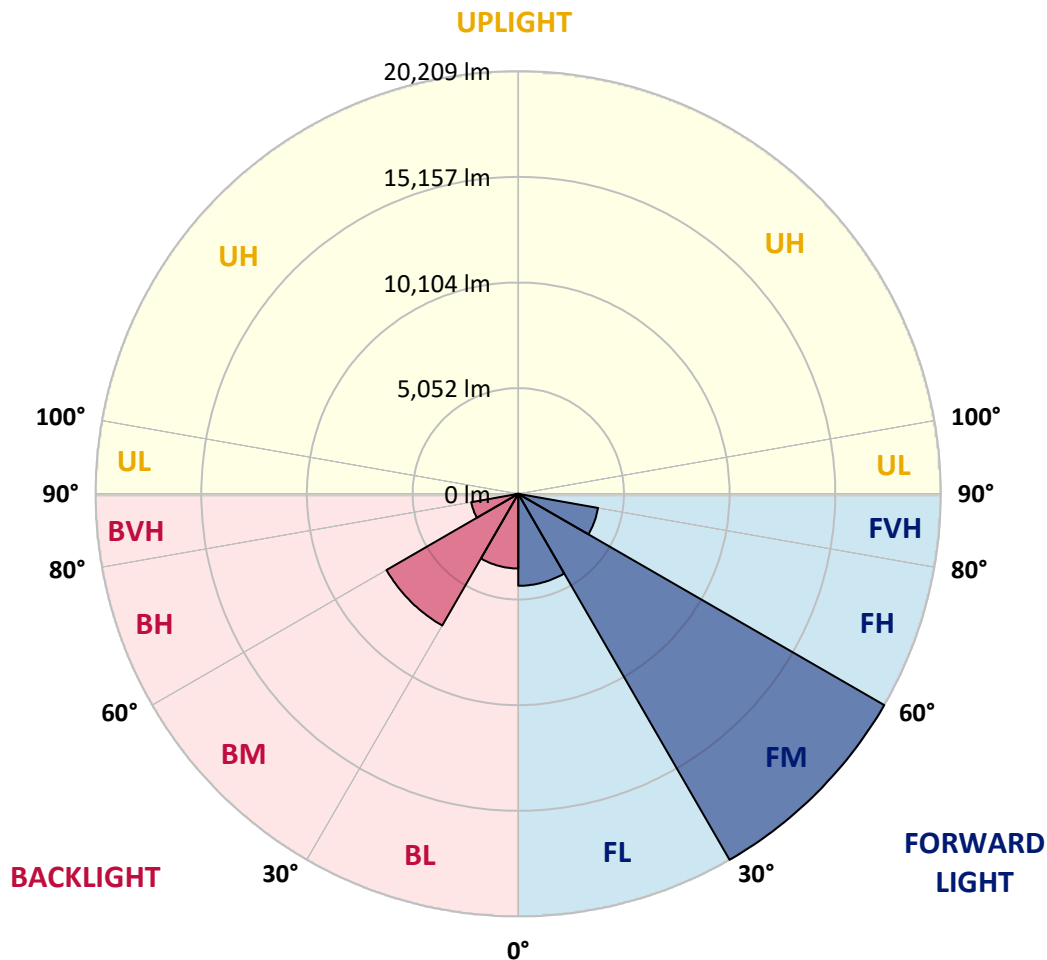
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4398.6	10.5			
FM (30°-60°)	20208.7	48.3			
FH (60°-80°)	3875.7	9.3			G2/5000
FVH (80°-90°)	97.0	0.2			G1/100
BL (0°-30°)	3569.6	8.5	B4/5000		
BM (30°-60°)	7275.7	17.4	B4/8500		
BH (60°-80°)	2281.1	5.5	B3/2500		G3/2500
BVH (80°-90°)	131.5	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	8404.0	8404.0	8404.0	8404.0	8404.0	8404.0	8404.0	8404.0	8404.0	8404.0	8404.0
2.5°	8372.0	8356.0	8345.3	8430.7	8398.6	8404.0	8372.0	8404.0	8425.3	8377.3	8446.7
5°	8356.0	8404.0	8361.3	8388.0	8457.3	8436.0	8457.3	8521.4	8505.4	8489.4	8468.0
7.5°	8505.4	8510.7	8542.7	8553.4	8574.7	8553.4	8585.4	8644.1	8628.1	8537.4	8548.1
10°	8718.8	8729.5	8734.8	8793.5	8830.9	8836.2	8798.8	8745.5	8740.1	8862.9	8777.5
12.5°	8964.2	8937.6	9001.6	9022.9	9065.6	9113.7	9161.7	9049.6	9119.0	9124.3	9022.9
15°	9321.8	9348.4	9273.7	9273.7	9289.7	9295.1	9428.5	9375.1	9364.4	9305.7	9348.4
17.5°	9855.3	9673.9	9668.6	9593.9	9583.2	9625.9	9673.9	9716.6	9860.7	9743.3	9513.8
20°	10244.9	10287.5	10132.8	10042.1	10058.1	10154.1	10106.1	10298.2	10399.6	10207.5	9983.4
22.5°	10933.2	10789.1	10826.5	10623.7	10639.7	10741.1	10735.8	10933.2	10991.9	10687.7	10362.2
25°	11397.4	11360.1	11392.1	11232.0	11253.3	11333.4	11461.4	11786.9	11690.9	11354.7	10602.4
27.5°	12075.1	12000.4	11973.7	11915.0	11893.6	12107.1	12256.5	12603.3	12533.9	12043.0	11029.2
30°	12768.7	12720.7	12747.4	12507.3	12592.6	13046.2	13088.9	13563.8	13531.7	12667.3	11504.1
32.5°	13248.9	13275.6	13323.6	13190.3	13569.1	13931.9	14076.0	14614.9	14641.6	13739.8	12421.9
35°	14022.6	13931.9	13958.6	14113.4	14289.4	14951.1	15185.9	15543.4	15767.5	14865.7	13302.3
37.5°	14508.2	14604.3	14492.2	14737.7	15196.5	15991.6	16205.0	16573.2	16808.0	15975.6	14502.9
40°	15265.9	15111.2	15191.2	15367.3	15836.8	16872.0	16813.3	17192.1	17266.9	16920.0	15623.4
42.5°	16082.3	16007.6	15895.5	16295.7	16690.6	17442.9	17560.3	17384.2	17763.1	17843.1	17224.2
45°	17058.8	17149.5	17165.5	17176.1	17523.0	18179.3	18019.2	17864.5	18302.0	18883.6	18216.6
47.5°	17965.8	17677.7	17885.8	18173.9	18664.8	18670.2	18856.9	18488.8	18953.0	19470.6	19113.1
50°	18270.0	18131.3	18408.7	18953.0	19710.7	19790.7	19812.1	19289.1	19529.3	19940.1	19422.5
52.5°	18152.6	18104.6	18814.3	19657.3	20767.2	21172.7	21279.4	20633.8	20767.2	20580.4	20105.5
55°	17592.3	17736.4	18451.4	20169.6	21871.7	23125.6	23328.4	22512.0	21663.6	21807.7	21284.8
56°	16824.0	16573.2	17373.6	19588.0	21823.7	23760.6	23926.0	22906.9	22330.6	22143.8	21274.1
57.5°	14273.4	13947.9	14999.1	17624.4	20612.4	23520.5	23643.2	23072.3	22218.5	21839.7	19721.3
60°	8356.0	8516.0	9850.0	12155.1	15900.9	19283.8	19694.7	20110.9	19539.9	17843.1	14679.0
62.5°	4033.9	3932.5	4887.6	6968.6	9689.9	12309.8	12187.1	13355.7	13996.0	12678.0	9268.4
65°	2113.0	2102.3	2667.9	3804.5	5325.2	6467.1	6579.1	7208.7	8089.2	6531.1	4706.2
67.5°	1552.7	1595.4	1878.2	2673.3	3425.6	3495.0	3479.0	3793.8	3879.2	3281.6	2892.0
70°	1216.6	1237.9	1446.0	2033.0	2550.5	2283.7	2235.7	2273.1	2523.9	2630.6	2502.5
72.5°	880.4	901.8	1077.8	1371.3	1595.4	1558.1	1590.1	1798.2	2107.7	2219.7	2086.3
75°	586.9	603.0	699.0	837.7	944.4	1019.1	1077.8	1318.0	1606.1	1670.1	1606.1
77.5°	405.5	421.5	485.6	592.3	603.0	651.0	672.3	784.4	960.5	1040.5	997.8
80°	229.4	229.4	261.5	304.1	373.5	437.5	448.2	538.9	619.0	672.3	683.0
82.5°	106.7	112.1	138.7	186.8	245.4	304.1	314.8	373.5	432.2	485.6	501.6
85°	53.4	58.7	80.0	112.1	149.4	181.4	176.1	181.4	192.1	181.4	186.8
87.5°	16.0	16.0	21.3	26.7	21.3	26.7	26.7	32.0	37.4	42.7	48.0
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°	8404.0	8404.0	8404.0	8404.0	8404.0	8404.0	8404.0	8404.0	8404.0	8404.0	8404.0
2.5°	8452.0	8468.0	8361.3	8462.7	8425.3	8420.0	8494.7	8484.0	8510.7	8500.0	8436.0
5°	8457.3	8420.0	8532.0	8430.7	8478.7	8580.1	8510.7	8670.8	8590.7	8644.1	8526.7
7.5°	8622.8	8633.4	8612.1	8654.8	8633.4	8681.4	8644.1	8681.4	8617.4	8622.8	8729.5
10°	8766.8	8734.8	8772.2	8718.8	8756.1	8740.1	8654.8	8628.1	8649.4	8622.8	8692.1
12.5°	9033.6	8974.9	8948.2	8884.2	8841.5	8681.4	8548.1	8473.3	8574.7	8590.7	8558.7
15°	9305.7	9311.1	9188.4	9044.3	8777.5	8537.4	8569.4	8596.1	8596.1	8638.8	8558.7
17.5°	9476.5	9476.5	9364.4	9076.3	8804.2	8665.4	8633.4	8548.1	8473.3	8462.7	8457.3
20°	9775.3	9684.6	9428.5	9071.0	8793.5	8729.5	8489.4	8286.6	8131.9	8078.5	8073.2
22.5°	10116.8	9887.4	9529.9	9081.6	8777.5	8686.8	8238.6	7934.4	7657.0	7539.6	7555.6
25°	10431.6	10063.4	9588.5	9033.6	8718.8	8281.3	7779.7	7358.2	7070.0	6974.0	6925.9
27.5°	10650.4	10250.2	9588.5	9076.3	8500.0	7827.7	7315.5	6776.5	6525.8	6461.7	6472.4
30°	10943.9	10485.0	9754.0	8985.6	8062.5	7240.8	6627.1	6275.0	6125.6	6072.2	6109.6
32.5°	11632.2	11098.6	9983.4	8766.8	7544.9	6653.8	6157.6	5960.2	5741.4	5634.7	5597.3
35°	12379.2	11680.2	10207.5	8398.6	6963.3	6120.2	5810.8	5629.3	5367.9	5250.5	5271.8
37.5°	13435.7	12427.2	10223.5	7790.4	6333.7	5821.4	5538.6	5255.8	5042.4	4861.0	4807.6
40°	14860.4	13446.4	10186.2	7150.1	5826.8	5469.3	5261.2	4909.0	4668.9	4540.8	4567.5
42.5°	16114.3	14641.6	10031.4	6424.4	5367.9	5229.1	4994.4	4647.5	4412.8	4279.4	4268.7
45°	17170.8	15522.0	9737.9	5805.4	4983.7	4962.4	4690.2	4423.4	4236.7	4113.9	4167.3
47.5°	18147.3	16231.7	9295.1	5186.5	4631.5	4674.2	4412.8	4247.3	4130.0	4017.9	4012.6
50°	18499.4	16221.0	8905.6	4674.2	4348.7	4327.4	4316.7	4140.6	4017.9	3921.9	3964.5
52.5°	19086.4	16402.4	8484.0	4322.0	4092.6	4097.9	4135.3	4007.2	3868.5	3809.8	3863.2
55°	19929.4	16429.1	7555.6	3911.2	3879.2	3916.5	3916.5	3831.1	3713.8	3665.7	3639.1
56°	19241.1	15634.1	6776.5	3804.5	3772.5	3772.5	3873.8	3777.8	3633.7	3596.4	3564.4
57.5°	17747.1	13697.2	5672.0	3676.4	3628.4	3703.1	3756.4	3655.1	3521.7	3468.3	3500.3
60°	12240.5	9268.4	4263.4	3398.9	3398.9	3521.7	3564.4	3415.0	3356.3	3350.9	3308.2
62.5°	7144.7	5399.9	3334.9	3148.2	3158.8	3260.2	3292.2	3206.9	3132.2	3222.9	3265.5
65°	3788.5	3222.9	2860.0	2881.4	2886.7	2966.7	3105.5	3100.1	3094.8	3121.5	3126.8
67.5°	2742.6	2678.6	2598.6	2577.2	2587.9	2646.6	2785.3	2892.0	2886.7	2822.7	2774.6
70°	2443.8	2353.1	2305.1	2310.4	2267.7	2337.1	2449.2	2518.5	2395.8	2321.1	2289.1
72.5°	2033.0	2006.3	1974.3	1979.6	1894.2	1878.2	1750.2	1750.2	1718.1	1696.8	1734.2
75°	1552.7	1542.1	1558.1	1531.4	1440.7	1344.6	1269.9	1200.6	1093.9	1051.2	1029.8
77.5°	981.8	1013.8	1051.2	992.5	955.1	885.8	811.1	741.7	656.3	608.3	608.3
80°	667.0	693.7	720.3	709.7	667.0	603.0	544.3	469.6	410.9	373.5	368.2
82.5°	506.9	528.3	565.6	522.9	480.2	426.9	378.8	325.5	272.1	229.4	229.4
85°	181.4	208.1	229.4	250.8	266.8	272.1	234.8	192.1	154.7	122.7	117.4
87.5°	48.0	53.4	58.7	53.4	53.4	53.4	58.7	53.4	48.0	37.4	37.4
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)