

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: P652081

Luminaire Tested: **GALN-SA8A-840-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652081
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-840-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18545.7 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

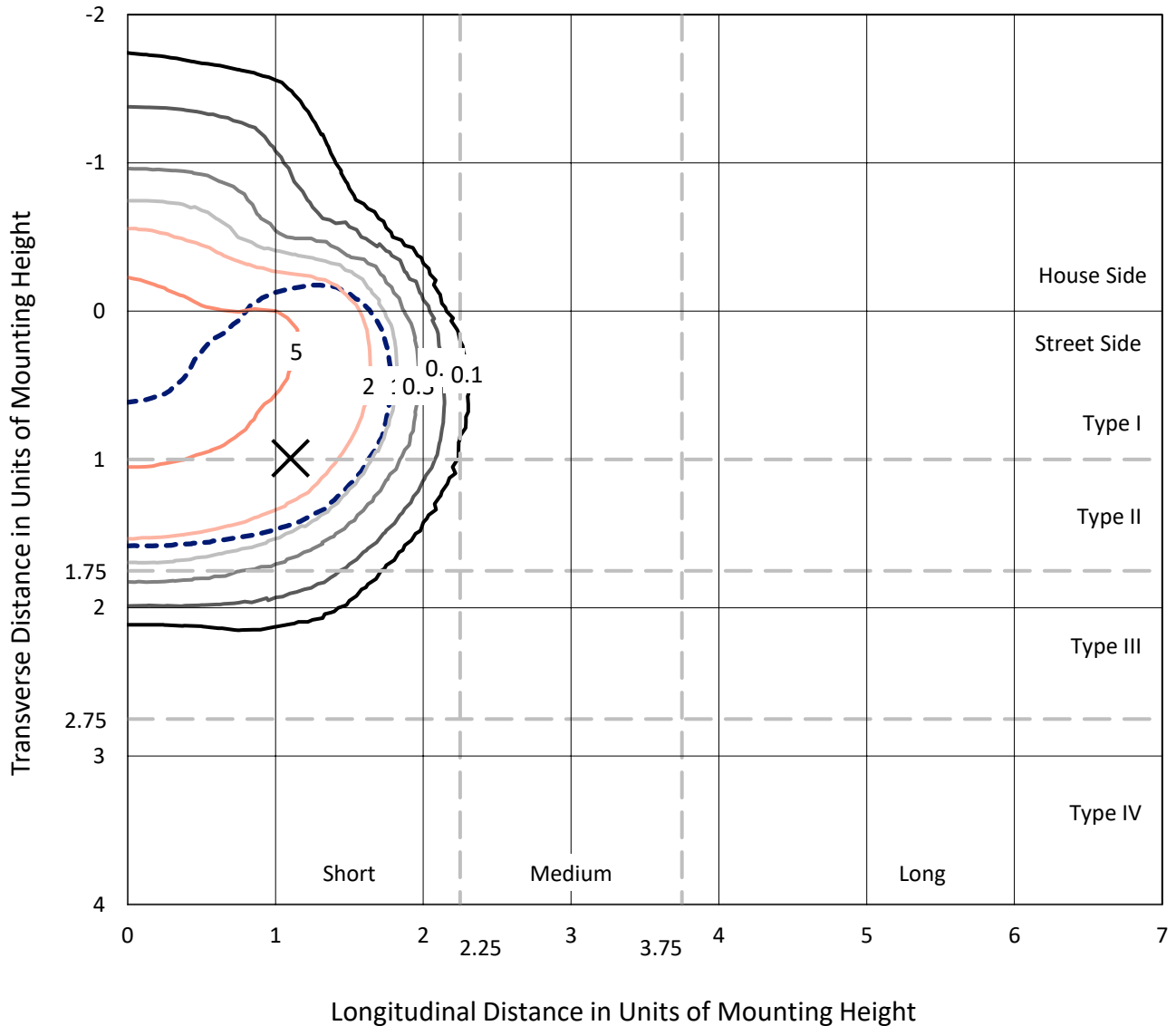
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

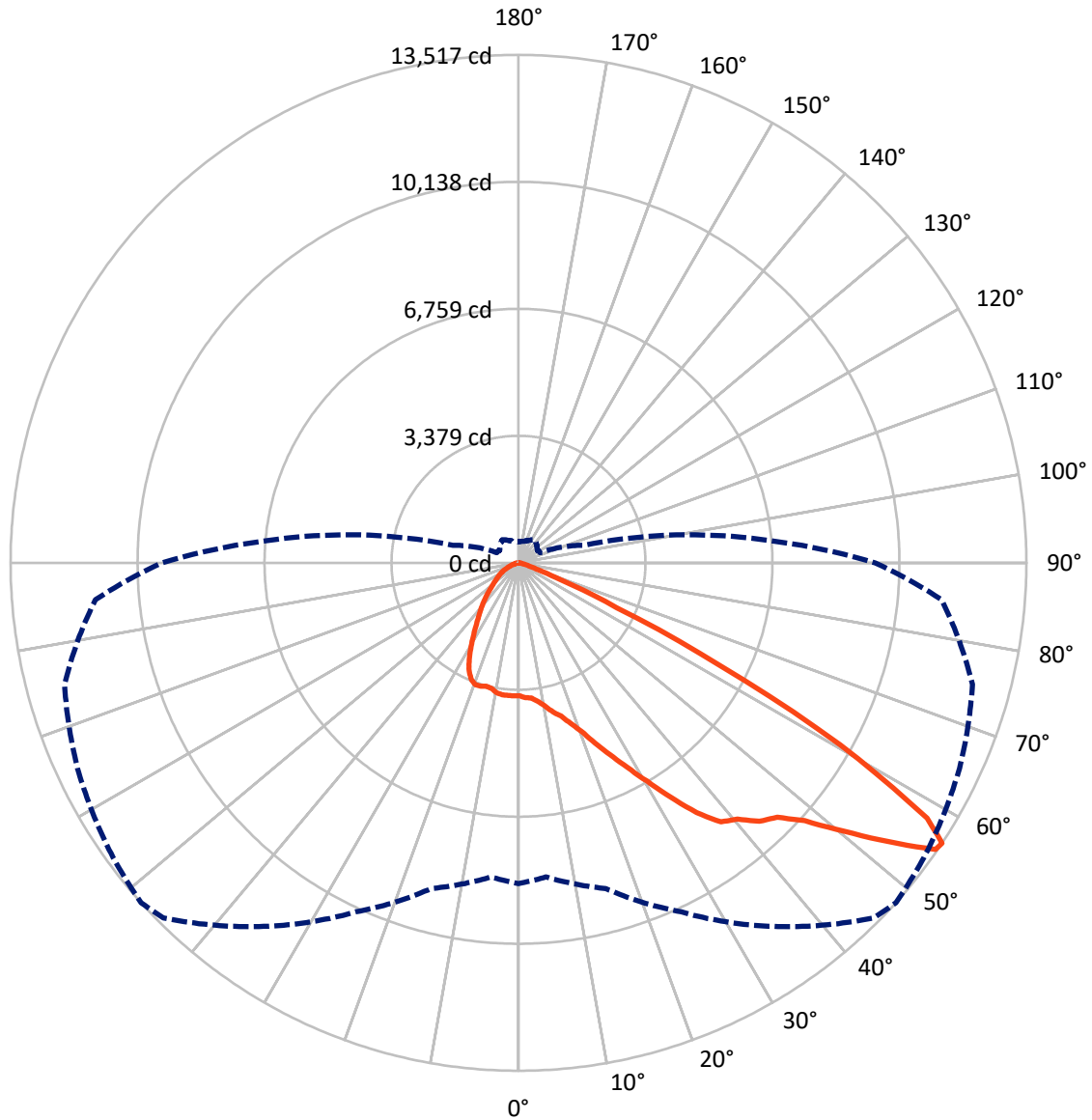
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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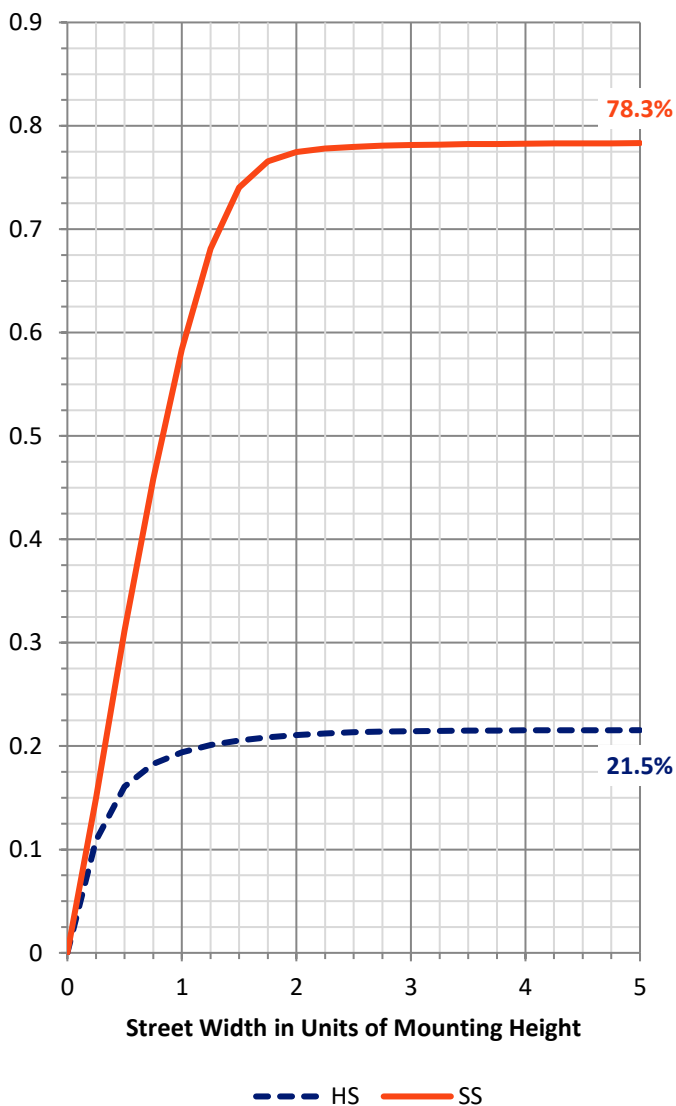
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4033.3	0.0	4033.3
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	14512.4	0.0	14512.4
	% Fixture	78.3	0.0	78.3
Total	Lumens	18545.7	0.0	18545.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.0	1.9
10°-20°	1102.7	5.9
20°-30°	2000.1	10.8
30°-40°	3141.8	16.9
40°-50°	4583.3	24.7
50°-60°	5522.0	29.8
60°-70°	1616.8	8.7
70°-80°	205.1	1.1
80°-90°	28.8	0.2
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°	18545.7	100.0
0°-180°	18545.7	100.0

Coefficient of Utilization



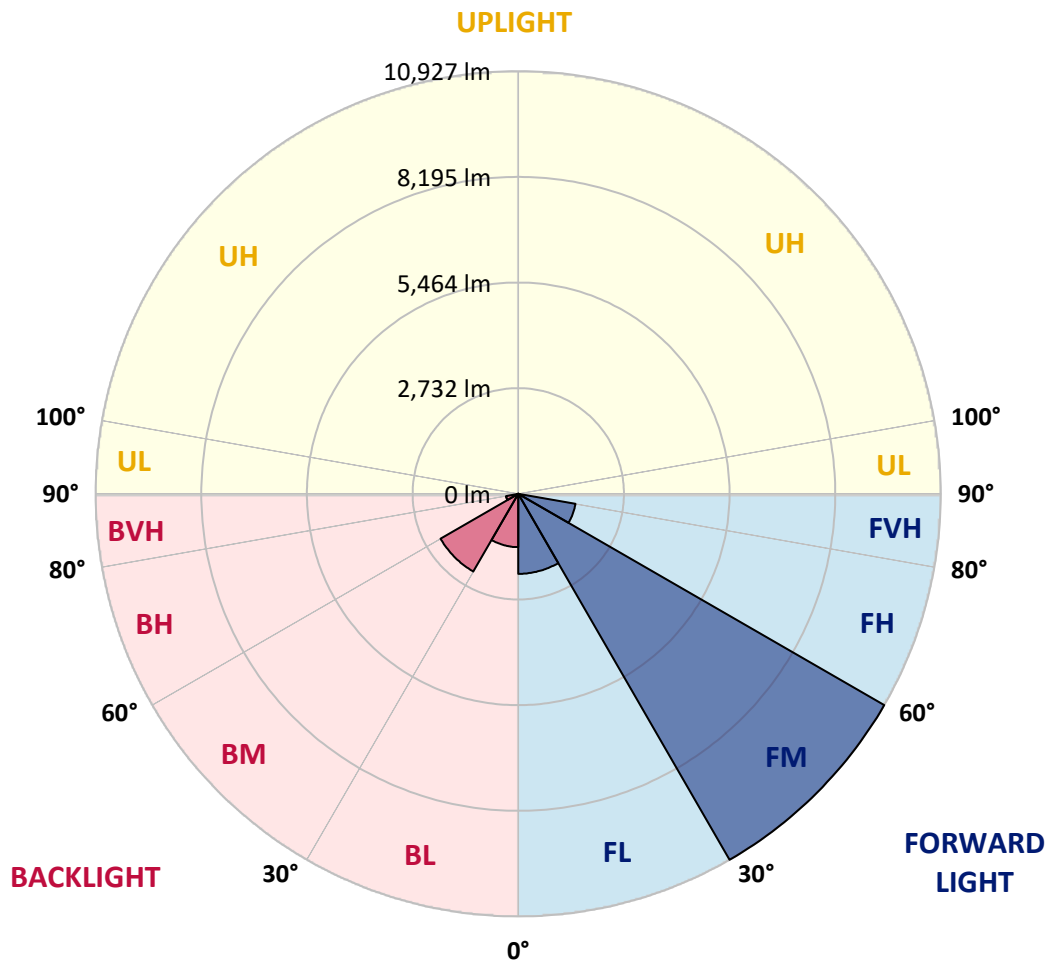
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2069.3	11.2			
FM (30°-60°)	10927.2	58.9			
FH (60°-80°)	1501.4	8.1			G1/1800
FVH (80°-90°)	14.4	0.1			G1/100
BL (0°-30°)	1378.6	7.4	B3/2500		
BM (30°-60°)	2320.0	12.5	B2/2500		
BH (60°-80°)	320.5	1.7	B1/500		G1/500
BVH (80°-90°)	14.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	3542.2	3542.2	3542.2	3542.2	3542.2	3542.2	3542.2	3542.2	3542.2	3542.2	3542.2
2.5°	3606.4	3589.6	3589.6	3562.5	3592.9	3579.4	3589.6	3555.7	3589.6	3538.8	3579.4
5°	3623.3	3626.6	3613.2	3630.0	3630.0	3650.3	3616.6	3646.9	3663.8	3626.6	3609.7
7.5°	3711.1	3717.8	3714.4	3701.0	3728.0	3724.6	3721.2	3697.5	3704.4	3690.8	3670.5
10°	3883.3	3880.0	3896.8	3863.0	3842.8	3866.4	3873.1	3836.1	3809.0	3798.9	3734.7
12.5°	4133.2	4092.6	4069.0	4035.3	4045.4	4011.7	4072.4	4008.2	3994.8	3933.9	3869.8
15°	4335.8	4329.0	4332.4	4278.4	4217.6	4231.1	4231.1	4197.3	4177.1	4102.8	4011.7
17.5°	4751.1	4609.3	4639.7	4572.2	4521.5	4518.1	4487.7	4494.5	4440.5	4285.1	4146.7
20°	5075.3	5014.5	4967.3	4852.4	4774.8	4798.4	4784.9	4751.1	4734.2	4531.6	4335.8
22.5°	5365.7	5385.9	5308.3	5277.9	5169.9	5180.0	5207.0	5176.6	5048.3	4838.9	4548.5
25°	5774.3	5750.7	5646.0	5608.8	5507.5	5544.7	5649.3	5625.7	5544.7	5166.5	4714.0
27.5°	6257.2	6176.1	6196.4	6027.5	5929.6	6034.3	6159.2	6277.5	6047.8	5551.4	4909.8
30°	6598.2	6513.8	6507.1	6500.3	6476.6	6598.2	6743.4	6851.5	6665.8	5936.4	5234.0
32.5°	6767.1	6787.3	6844.7	6824.5	7030.4	7280.4	7432.3	7587.6	7354.6	6564.4	5662.9
35°	7216.2	7087.9	7216.2	7229.7	7442.4	7972.6	8165.0	8536.5	8479.1	7452.5	6186.2
37.5°	7479.6	7469.4	7486.3	7614.7	7820.6	8475.7	8749.3	9036.3	8928.2	7986.1	6838.0
40°	7915.2	7942.2	7938.8	8036.8	8263.0	8853.9	8965.3	9198.4	9208.4	8725.6	7797.0
42.5°	8614.2	8506.1	8435.2	8536.5	8853.9	9181.4	9404.3	9357.1	9691.3	9623.8	9029.5
45°	9242.3	9306.4	9201.7	9370.6	9485.4	9661.0	9654.2	9755.5	10181.0	10501.8	9958.1
47.5°	9829.8	9870.3	9920.9	10035.8	10285.7	10312.7	10255.3	10211.4	10798.9	11129.9	10677.4
50°	10181.0	10218.2	10454.5	10660.5	11126.5	11187.2	11221.0	11109.6	11508.1	11545.2	11356.1
52.5°	10086.4	10127.0	10457.9	11136.6	11879.5	12436.7	12335.4	12146.3	12122.7	12267.8	11984.2
55°	9249.0	9211.9	9667.7	10724.7	12115.9	13453.1	13466.6	13267.4	12885.8	12787.9	11889.6
56°	8536.5	8391.3	8972.1	10248.5	11812.0	13365.3	13517.2	13304.5	12946.6	12507.6	11305.5
57.5°	6993.3	7131.8	7709.2	8766.2	10761.8	12733.8	12821.6	12771.0	12500.9	11764.7	9948.0
60°	3856.3	4099.4	4609.3	5902.6	7661.9	9772.4	9843.3	10255.3	10306.0	9009.2	6844.7
62.5°	1637.8	1610.7	2140.8	3093.1	4362.8	5899.2	6030.9	6453.0	6530.7	5193.5	3434.2
65°	665.2	702.4	969.2	1556.7	2306.4	2687.9	2873.6	3012.1	3268.7	2144.3	1266.3
67.5°	439.0	435.6	570.7	888.1	1242.7	1198.8	1198.8	1266.3	1171.8	874.6	547.1
70°	314.0	324.2	408.6	614.6	773.3	574.1	550.4	526.8	597.7	577.4	442.4
72.5°	206.0	219.5	273.5	368.1	401.8	314.0	314.0	378.2	493.0	466.0	361.3
75°	135.1	138.4	168.9	212.8	199.2	162.1	179.0	253.2	357.9	344.5	256.7
77.5°	91.2	94.5	114.8	138.4	111.4	91.2	97.9	128.3	175.6	175.6	135.1
80°	33.8	37.2	47.3	43.9	50.6	64.2	70.9	87.8	104.7	104.7	91.2
82.5°	0.0	3.4	10.1	23.6	37.2	50.6	57.4	67.5	77.6	87.8	84.4
85°	0.0	3.4	10.1	16.9	27.0	30.4	33.8	23.6	20.3	20.3	16.9
87.5°	0.0	0.0	3.4	3.4	3.4	3.4	3.4	3.4	6.7	3.4	3.4
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°	3542.2	3542.2	3542.2	3542.2	3542.2	3542.2	3542.2	3542.2	3542.2	3542.2	3542.2
2.5°	3542.2	3538.8	3538.8	3528.8	3549.0	3538.8	3545.7	3542.2	3498.3	3532.1	3508.5
5°	3579.4	3603.0	3565.8	3559.1	3532.1	3542.2	3542.2	3508.5	3538.8	3535.5	3528.8
7.5°	3673.9	3633.5	3592.9	3552.4	3545.7	3535.5	3498.3	3484.9	3508.5	3481.5	3522.0
10°	3714.4	3721.2	3660.5	3606.4	3555.7	3484.9	3434.2	3403.8	3366.7	3407.1	3430.8
12.5°	3900.2	3832.6	3728.0	3643.5	3471.3	3400.4	3349.8	3336.2	3400.4	3414.0	3390.3
15°	3964.3	3954.2	3819.1	3630.0	3451.0	3366.7	3376.8	3349.8	3356.5	3322.8	3329.5
17.5°	4096.0	3981.2	3822.5	3586.1	3447.7	3427.4	3366.7	3258.6	3197.8	3170.8	3194.5
20°	4241.2	4129.8	3900.2	3603.0	3478.1	3424.0	3224.8	3093.1	2968.2	2900.7	2904.1
22.5°	4369.6	4231.1	3866.4	3609.7	3505.1	3282.3	3042.5	2782.4	2627.1	2522.5	2525.9
25°	4524.9	4329.0	3880.0	3623.3	3434.2	3056.0	2711.6	2458.3	2272.6	2201.7	2225.3
27.5°	4612.7	4389.9	3954.2	3653.6	3248.4	2735.2	2363.7	2127.4	2019.3	1985.5	1982.2
30°	4876.0	4524.9	4045.4	3592.9	2937.8	2390.8	2046.3	1901.2	1796.5	1766.0	1772.8
32.5°	5267.8	4771.4	4163.5	3434.2	2620.4	2083.5	1840.4	1732.3	1634.4	1577.0	1570.2
35°	5595.3	5193.5	4288.5	3187.6	2252.3	1847.1	1695.1	1560.1	1411.5	1347.4	1330.5
37.5°	6220.0	5669.6	4261.5	2816.3	1901.2	1671.5	1539.8	1374.4	1246.0	1158.2	1148.1
40°	7050.7	6226.8	4129.8	2363.7	1641.1	1516.2	1374.4	1215.7	1057.0	982.6	975.9
42.5°	8060.4	6908.9	3890.0	1904.5	1381.1	1360.8	1232.5	1050.2	908.4	854.3	857.7
45°	8881.0	7493.1	3646.9	1529.7	1188.6	1208.9	1097.4	925.3	827.3	783.4	783.4
47.5°	9610.4	7888.2	3383.5	1262.9	1009.6	1057.0	959.0	857.7	773.3	739.5	732.8
50°	10312.7	8290.0	3120.1	1023.2	861.1	908.4	898.2	817.2	749.7	709.1	712.5
52.5°	10751.7	8354.2	2785.8	837.5	753.0	807.0	840.8	766.5	692.2	668.6	661.9
55°	10214.8	7526.9	2161.1	688.9	638.2	709.1	773.3	688.9	631.4	591.0	587.5
56°	9492.1	6729.9	1806.6	634.9	604.4	682.1	749.7	658.5	594.3	570.7	553.8
57.5°	8036.8	5507.5	1333.8	563.9	560.5	634.9	712.5	628.1	553.8	533.5	533.5
60°	5011.2	3099.9	807.0	472.7	486.3	563.9	641.6	560.5	493.0	493.0	503.2
62.5°	2282.7	1289.9	489.6	401.8	418.7	486.3	570.7	506.5	469.4	506.5	513.3
65°	776.7	557.2	354.6	320.8	330.9	401.8	489.6	513.3	509.9	533.5	547.1
67.5°	435.6	357.9	297.1	266.8	260.0	297.1	401.8	513.3	493.0	482.9	489.6
70°	368.1	303.9	263.4	236.4	226.2	239.8	310.7	388.3	347.8	337.7	330.9
72.5°	297.1	253.2	229.6	212.8	182.3	155.3	141.8	148.6	165.4	175.6	192.5
75°	209.3	192.5	192.5	172.2	131.7	97.9	77.6	64.2	43.9	30.4	33.8
77.5°	118.2	118.2	121.5	104.7	84.4	64.2	47.3	33.8	16.9	6.7	3.4
80°	81.1	87.8	94.5	84.4	70.9	57.4	40.5	23.6	10.1	0.0	0.0
82.5°	81.1	91.2	97.9	84.4	70.9	54.0	40.5	23.6	10.1	3.4	0.0
85°	16.9	20.3	23.6	27.0	40.5	40.5	30.4	20.3	10.1	3.4	0.0
87.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	0.0	0.0
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)