

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: P533844

Luminaire Tested: **GALN-SA9B-740-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533844
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-740-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46548 lumens
Efficiency: N/A
Efficacy: 127.9 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

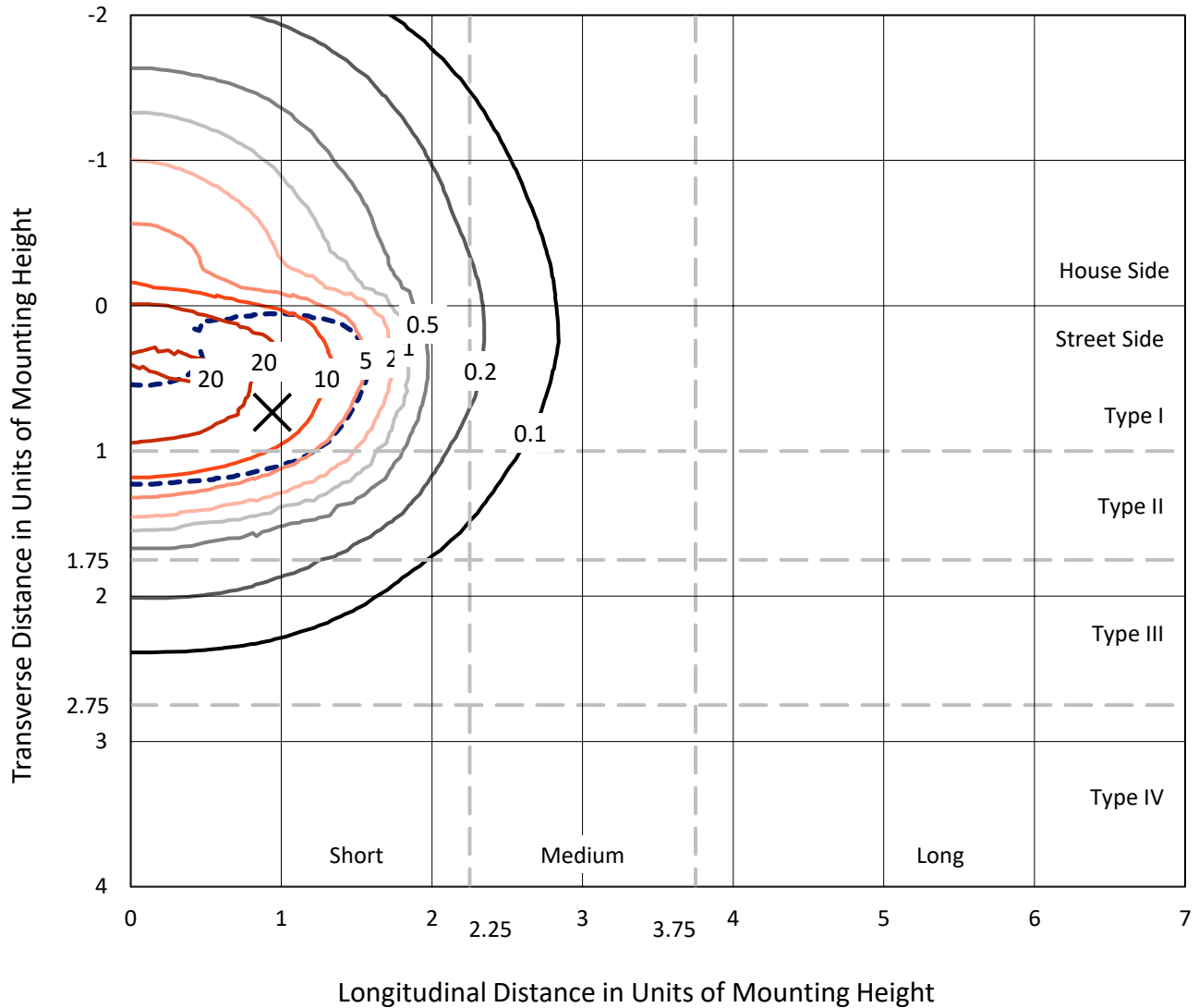
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

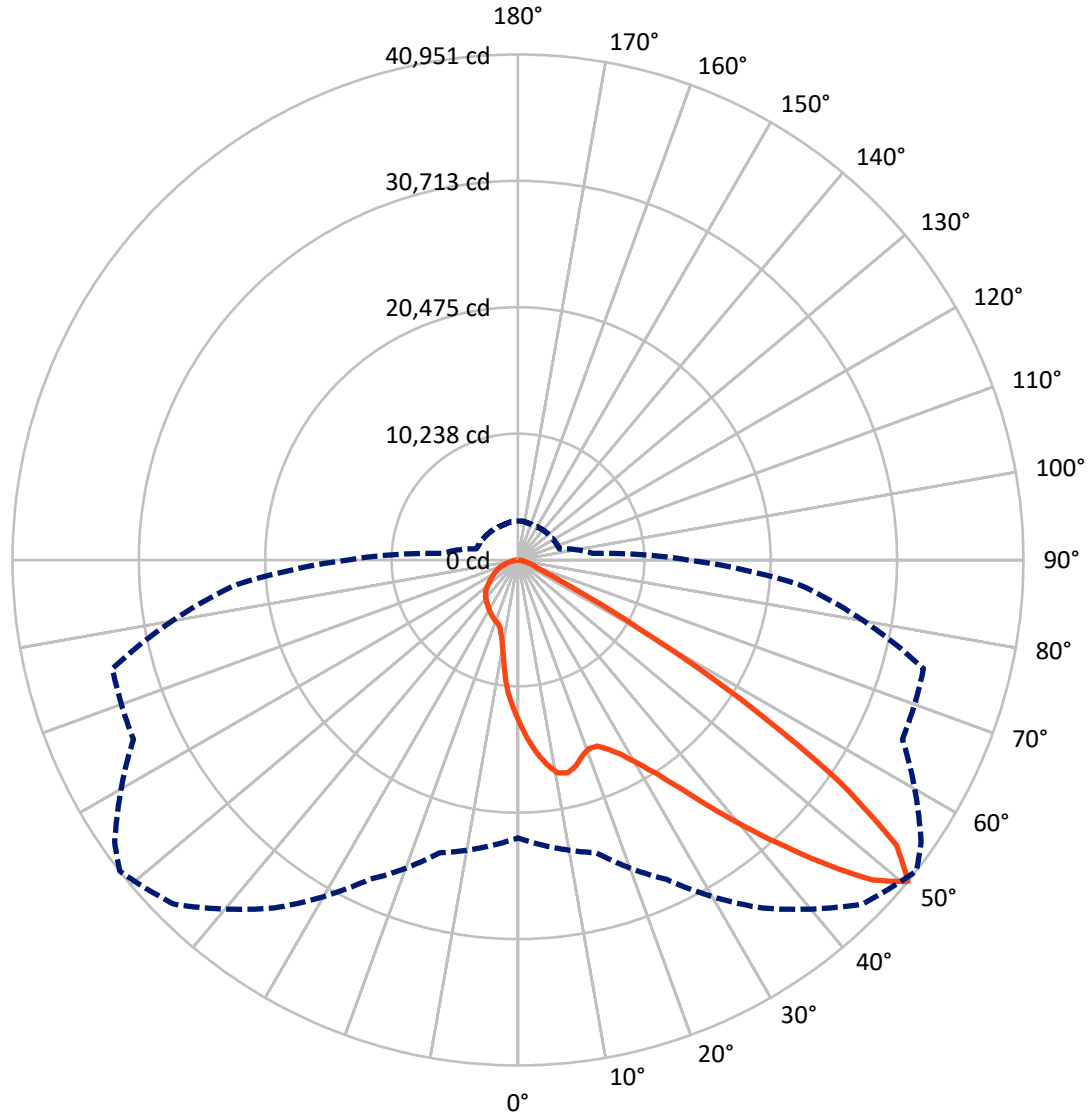
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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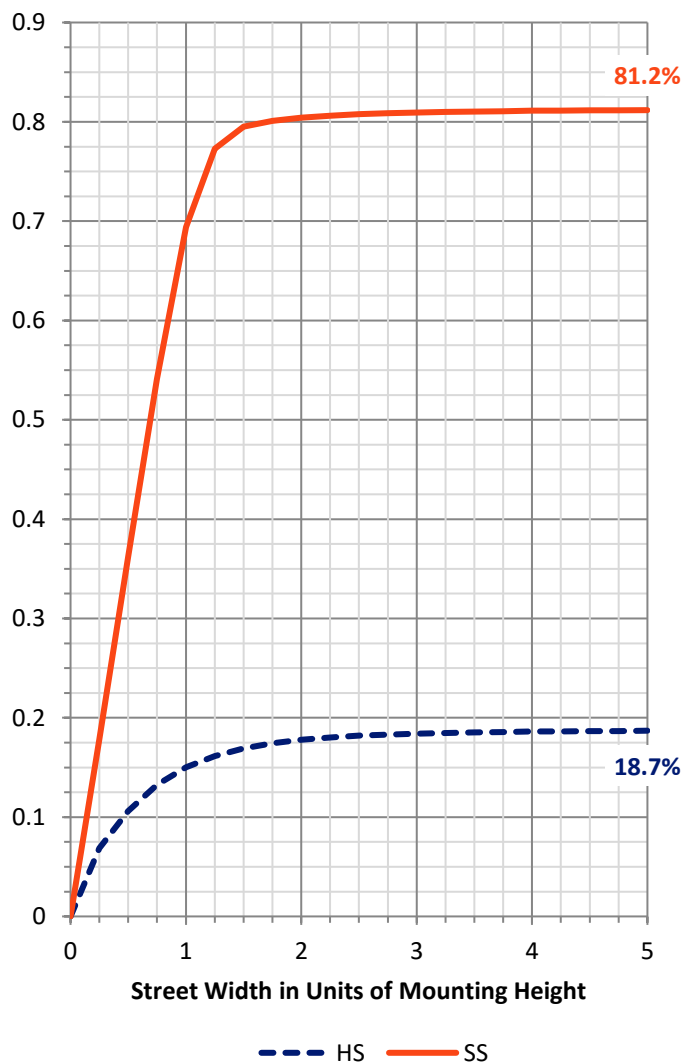
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8749.9	0.0	8749.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	37798.1	0.0	37798.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	46548.0	0.0	46548.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1209.4	2.6
10°-20°	3241.4	7.0
20°-30°	5460.0	11.7
30°-40°	9162.4	19.7
40°-50°	14016.2	30.1
50°-60°	10218.9	22.0
60°-70°	2274.2	4.9
70°-80°	820.3	1.8
80°-90°	145.2	0.3
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°	46548.0	100.0
0°-180°	46548.0	100.0

Coefficient of Utilization



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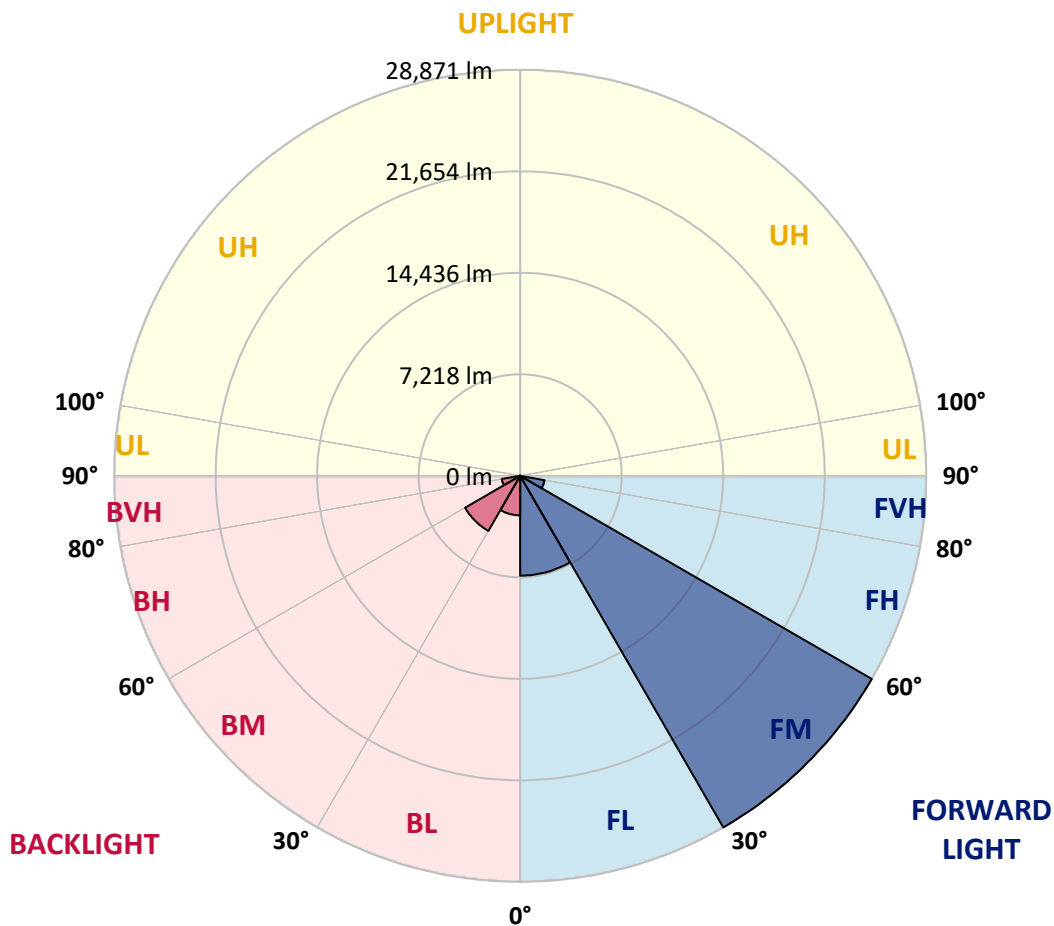
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7100.2	15.3			
FM (30°-60°)	28871.4	62.0			
FH (60°-80°)	1761.4	3.8			G1/1800
FVH (80°-90°)	65.1	0.1			G1/100
BL (0°-30°)	2810.6	6.0	B4/5000		
BM (30°-60°)	4526.1	9.7	B3/5000		
BH (60°-80°)	1333.1	2.9	B3/2500		G3/2500
BVH (80°-90°)	80.1	0.2			G1/100
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°	52°	55°	65°	75°	85°
0°	13121.1	13121.1	13121.1	13121.1	13121.1	13121.1	13121.1	13121.1	13121.1	13121.1	13121.1
2.5°	15449.1	15151.8	15185.5	14972.3	14742.3	14675.0	14439.4	14215.0	14046.7	13687.7	13356.7
5°	16885.2	16795.5	16660.8	16492.5	16318.6	15892.3	15651.1	15370.6	14753.5	14198.2	13648.4
7.5°	17092.8	17076.0	17148.9	17148.9	17210.6	17047.9	16705.7	16509.4	15853.0	14949.9	13928.9
10°	15634.3	15684.7	16038.2	16498.2	17137.7	17580.8	17524.7	17474.2	16756.2	15522.1	14259.9
12.5°	14473.0	14360.9	14568.4	14961.1	15920.4	16991.8	17715.5	17721.1	17536.0	16436.4	14501.1
15°	13816.7	13895.2	13951.3	14136.5	14860.1	16099.9	17373.3	17749.1	18562.5	17081.6	14882.6
17.5°	14237.4	13973.8	13962.6	14007.4	14377.7	15308.9	16739.4	17384.5	19123.5	17911.8	15353.8
20°	14787.2	14781.6	14624.5	14568.4	14562.8	15393.0	16324.3	17199.4	19420.8	18988.9	15830.6
22.5°	15752.1	15752.1	15494.0	15370.6	15106.9	15785.7	16380.4	16975.0	19914.5	19729.3	16060.6
25°	17367.7	17104.0	16660.8	16357.9	16206.4	16447.7	16975.0	17507.9	20346.4	20514.7	16537.4
27.5°	18859.8	18444.7	18225.9	17704.2	17502.3	17362.0	17844.5	18383.0	20851.3	21737.6	16795.5
30°	20554.0	20481.0	20088.4	19415.2	18915.9	18657.9	19101.1	19634.0	21776.9	22988.6	17390.1
32.5°	23583.2	22921.3	22388.3	21563.7	20750.3	20200.6	20638.1	20991.5	23314.0	24295.6	18040.8
35°	26853.7	26640.5	25720.5	24233.9	22988.6	22494.9	22753.0	23016.6	25103.4	26292.7	19134.7
37.5°	30068.0	29776.3	29019.0	27768.1	26253.4	25249.3	25434.4	25743.0	27111.7	28985.4	20469.8
40°	32379.2	32020.2	31638.8	31453.6	29950.2	28575.9	28469.3	28547.8	29826.8	31509.7	21950.8
42.5°	32547.5	32990.7	33108.5	33854.6	33501.2	32373.6	31717.3	31734.1	32418.5	34006.1	23448.6
45°	32194.1	31784.6	32654.1	34690.4	35857.3	36384.6	35279.5	35139.2	34022.9	35453.4	24194.7
47.5°	28486.1	28598.3	30068.0	33288.0	36659.4	39015.5	38757.5	38291.9	34881.2	35402.9	24076.9
50°	22517.4	23196.1	24559.3	28570.2	34415.6	39430.6	40950.9	39873.8	34370.7	34011.7	22876.4
52.5°	14994.8	15275.2	16172.8	21350.6	27672.7	35245.8	38426.5	38673.3	33899.5	32188.5	21356.2
55°	6675.6	6653.1	7915.3	11152.1	17362.0	26820.0	31397.5	32900.9	32087.5	30331.7	19875.2
57.5°	2827.3	2922.7	3438.8	4818.7	8538.0	16184.0	21272.0	22590.3	24677.1	24907.1	15247.2
60°	1912.9	1924.1	2064.4	2412.2	3573.4	7601.2	11157.7	12739.6	14231.8	14130.9	8089.2
62.5°	1503.4	1542.7	1649.3	1789.5	2120.5	3450.0	4992.6	5873.4	5968.7	5020.7	3068.5
65°	1284.6	1290.2	1396.8	1514.6	1660.5	2008.3	2406.6	2451.4	2479.5	2389.7	2255.1
67.5°	1060.2	1071.5	1155.6	1290.2	1424.9	1537.1	1649.3	1705.4	1834.4	2086.8	2053.2
70°	841.5	858.3	931.2	1043.4	1166.8	1234.1	1374.4	1424.9	1542.7	1739.0	1817.5
72.5°	639.5	645.1	706.8	785.4	897.6	964.9	1082.7	1138.8	1217.3	1385.6	1458.5
75°	460.0	476.8	521.7	561.0	577.8	622.7	734.9	796.6	908.8	981.7	987.3
77.5°	241.2	252.4	263.7	263.7	319.8	403.9	476.8	510.5	589.0	645.1	617.1
80°	95.4	101.0	129.0	173.9	224.4	291.7	342.2	359.0	426.3	460.0	476.8
82.5°	56.1	61.7	84.1	123.4	162.7	207.6	246.8	263.7	308.5	347.8	359.0
85°	28.0	33.7	50.5	78.5	106.6	129.0	123.4	117.8	117.8	112.2	117.8
87.5°	11.2	11.2	16.8	16.8	16.8	22.4	28.0	28.0	28.0	33.7	33.7
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°	13121.1	13121.1	13121.1	13121.1	13121.1	13121.1	13121.1	13121.1	13121.1	13121.1	13121.1
2.5°	13137.9	12913.6	12706.0	12324.5	11909.4	11791.6	11309.2	11135.3	11011.9	10866.0	10821.1
5°	13205.3	12907.9	12240.4	11471.9	10860.4	10075.0	9558.9	9003.6	8599.7	8498.7	8470.7
7.5°	13345.5	12835.0	11685.0	10523.8	9272.8	8207.0	7393.6	6956.0	6569.0	6546.5	6507.3
10°	13502.6	12616.2	11079.2	9256.0	7657.3	6669.9	6181.9	5991.2	5895.8	5873.4	5862.1
12.5°	13631.6	12571.4	10400.4	8021.9	6512.9	5918.2	5772.4	5755.6	5794.8	5806.0	5828.5
15°	13687.7	12391.8	9581.4	6916.8	5800.4	5581.7	5643.4	5710.7	5738.7	5811.7	5755.6
17.5°	13794.3	12161.8	8571.6	6041.7	5402.1	5441.4	5548.0	5626.5	5671.4	5721.9	5649.0
20°	13850.4	11954.3	7623.6	5520.0	5261.9	5334.8	5480.7	5542.4	5598.5	5620.9	5536.8
22.5°	13799.9	11528.0	6787.7	5099.2	5127.3	5222.6	5351.7	5419.0	5385.3	5295.6	5245.1
25°	13665.3	10927.7	5918.2	4830.0	4936.5	5104.8	5205.8	5155.3	5093.6	5043.1	5026.3
27.5°	13659.6	10192.8	5290.0	4583.1	4773.9	5003.9	4970.2	4925.3	4953.4	4914.1	4869.2
30°	13687.7	9480.4	4773.9	4442.9	4656.1	4768.3	4807.5	4762.6	4796.3	4723.4	4745.8
32.5°	13541.8	8784.8	4437.3	4280.2	4515.8	4510.2	4639.2	4672.9	4594.4	4442.9	4465.3
35°	13603.5	8223.8	4151.2	4207.3	4358.7	4358.7	4459.7	4420.5	4212.9	4123.1	4145.6
37.5°	14029.9	7674.1	4010.9	4106.3	4207.3	4252.2	4218.5	4050.2	3999.7	3999.7	4010.9
40°	14433.8	7202.9	3926.8	4083.9	4067.0	4095.1	3848.3	3865.1	3865.1	3870.7	3842.7
42.5°	14792.8	6883.1	3859.5	3949.2	3977.3	3831.4	3680.0	3663.1	3702.4	3696.8	3674.4
45°	14921.8	6619.5	3764.1	3797.8	3820.2	3579.0	3506.1	3472.4	3517.3	3534.1	3556.6
47.5°	14428.2	6400.7	3657.5	3590.2	3545.3	3388.3	3292.9	3231.2	3287.3	3382.7	3405.1
50°	13794.3	6114.6	3489.2	3360.2	3264.9	3197.5	3130.2	3068.5	3107.8	3175.1	3158.3
52.5°	12857.5	5665.8	3276.1	3141.4	2978.8	2995.6	2933.9	2900.2	2922.7	2922.7	2905.8
55°	11522.3	4656.1	2917.0	2821.7	2687.1	2731.9	2743.1	2698.3	2653.4	2692.7	2659.0
57.5°	7864.8	3287.3	2602.9	2602.9	2468.3	2530.0	2524.4	2417.8	2311.2	2322.4	2300.0
60°	4549.5	2619.7	2401.0	2378.5	2238.3	2288.8	2300.0	2227.1	2064.4	2075.6	2053.2
62.5°	2586.1	2238.3	2098.0	2064.4	2036.3	2081.2	2081.2	1985.8	1845.6	1856.8	1834.4
65°	2199.0	2075.6	1873.6	1868.0	1856.8	1868.0	1823.2	1722.2	1598.8	1548.3	1553.9
67.5°	1997.1	1918.5	1722.2	1671.7	1638.0	1632.4	1548.3	1452.9	1396.8	1351.9	1346.3
70°	1750.2	1688.5	1542.7	1475.4	1441.7	1363.2	1279.0	1217.3	1138.8	1116.3	1138.8
72.5°	1385.6	1380.0	1323.9	1251.0	1178.0	1116.3	1043.4	959.3	886.3	869.5	830.2
75°	959.3	970.5	981.7	970.5	908.8	830.2	746.1	678.8	589.0	538.5	527.3
77.5°	628.3	645.1	661.9	639.5	600.2	527.3	471.2	387.1	319.8	280.5	274.9
80°	460.0	482.4	493.7	476.8	431.9	375.9	314.1	246.8	196.3	162.7	162.7
82.5°	353.4	375.9	387.1	359.0	314.1	269.3	224.4	173.9	134.6	106.6	101.0
85°	123.4	117.8	140.2	145.9	173.9	162.7	134.6	101.0	78.5	56.1	50.5
87.5°	33.7	33.7	39.3	39.3	33.7	28.0	28.0	28.0	22.4	16.8	16.8
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)