

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: P532870

Luminaire Tested: **GALN-SA8B-730-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532870
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-730-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36771 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

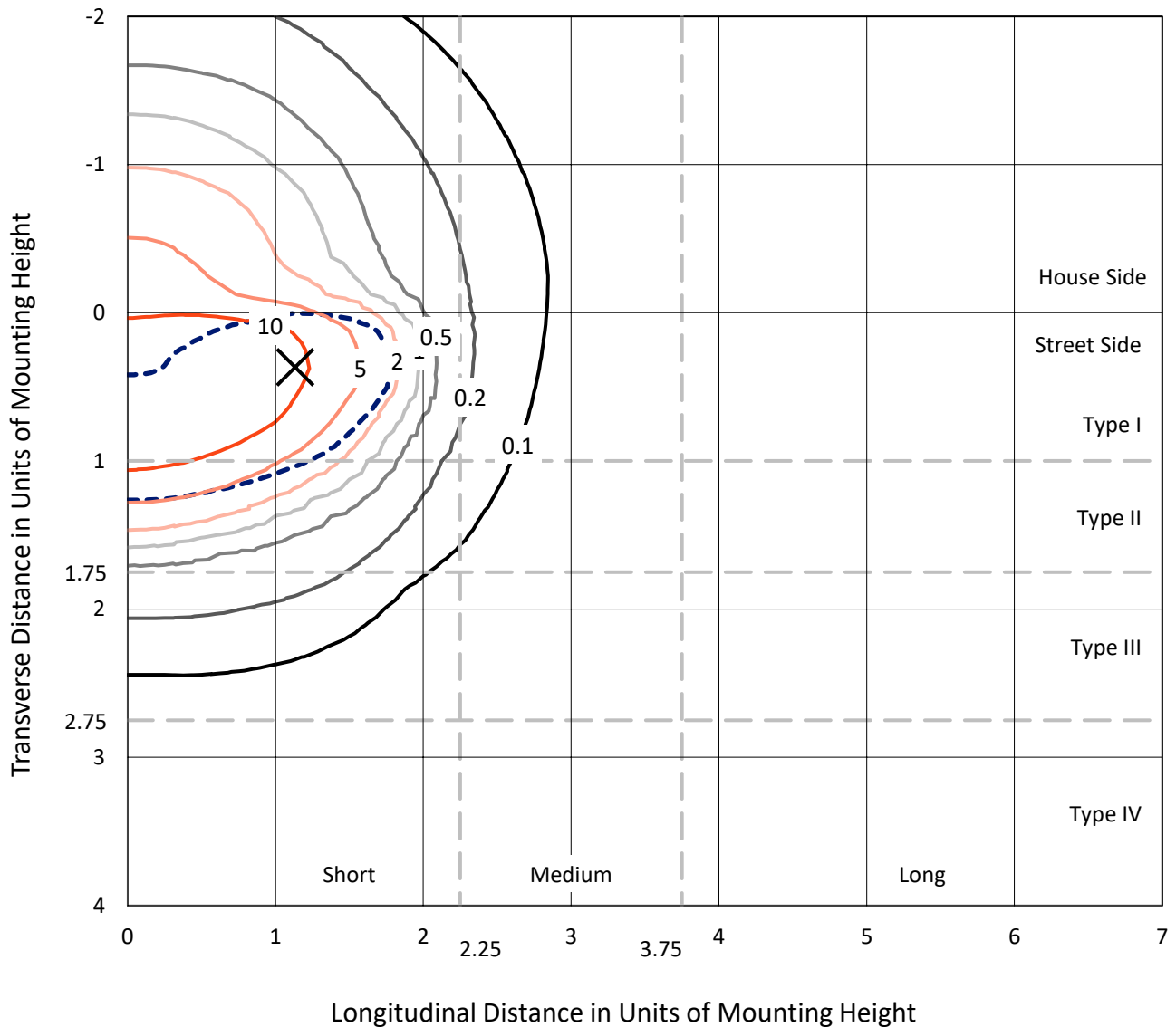
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

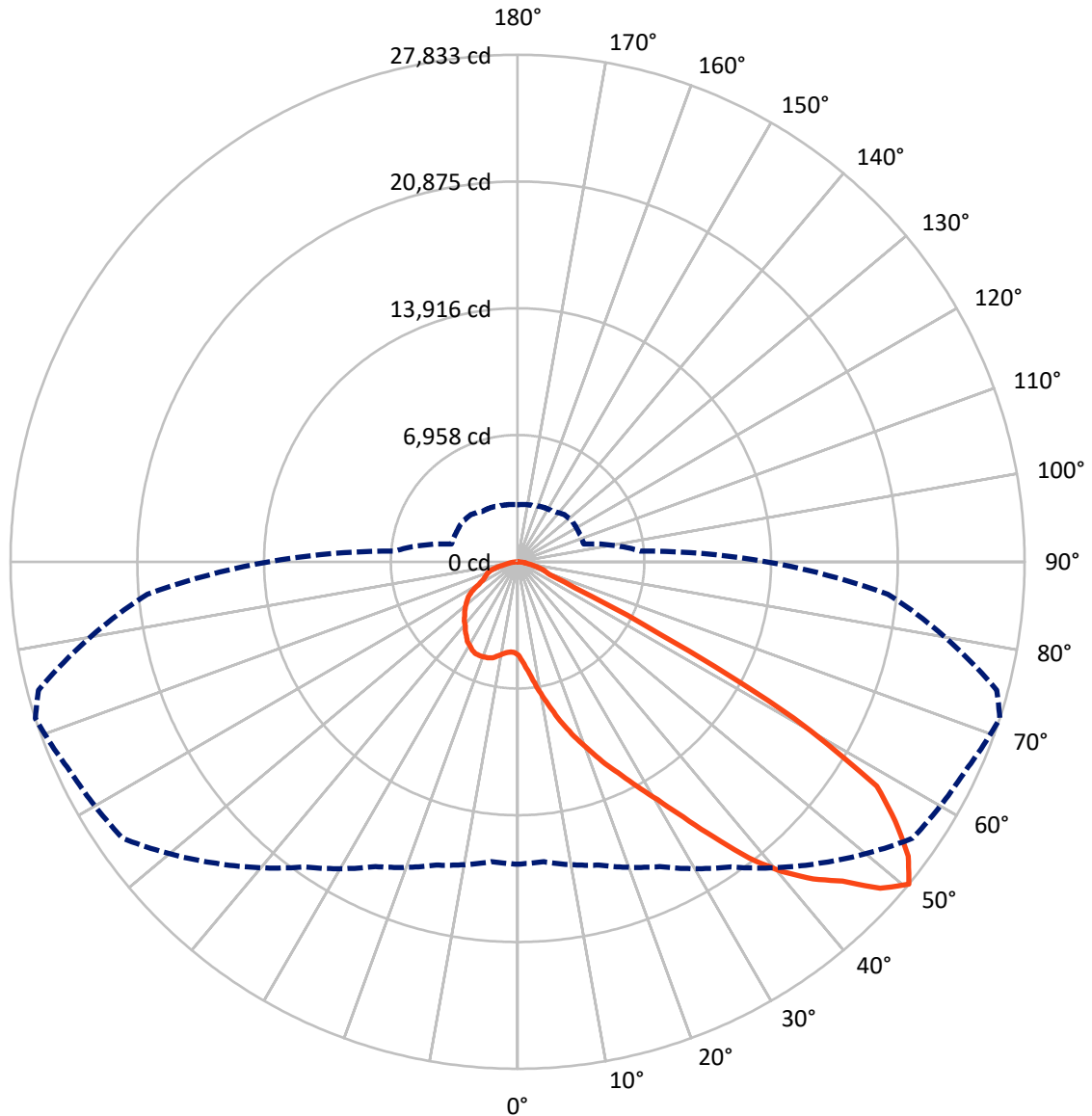
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.3 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SA8B-730-U-T2R-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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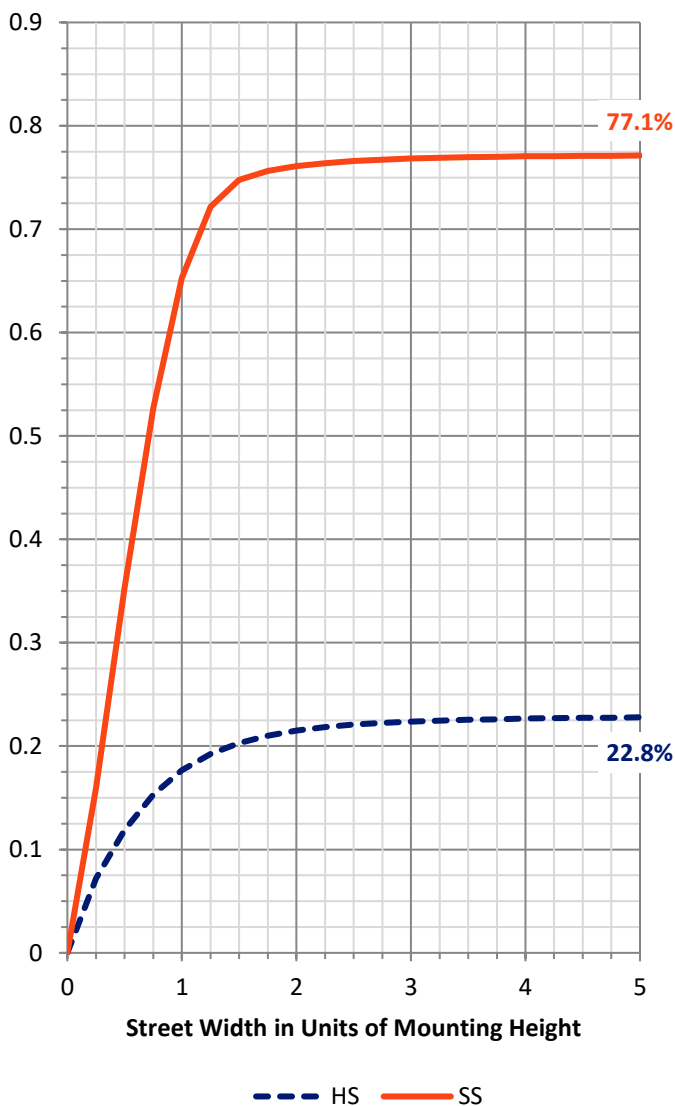
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8424.5	0.0	8424.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	28346.6	0.0	28346.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	36771.0	0.0	36771.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	602.1	1.6
10°-20°	2250.9	6.1
20°-30°	4364.3	11.9
30°-40°	7230.1	19.7
40°-50°	10116.5	27.5
50°-60°	8534.6	23.2
60°-70°	2601.3	7.1
70°-80°	912.6	2.5
80°-90°	158.7	0.4
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°	36771.0	100.0
0°-180°	36771.0	100.0

Coefficient of Utilization

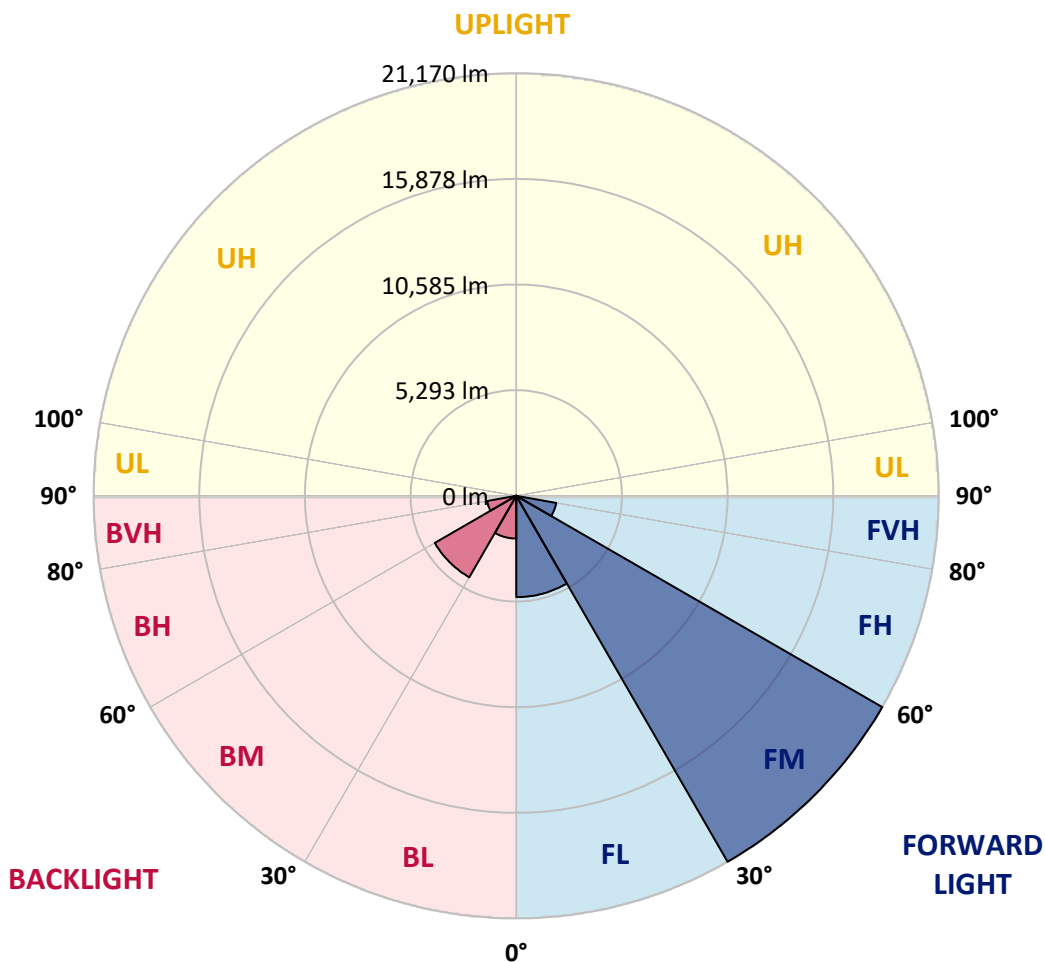


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5075.7	13.8			
FM (30°-60°)	21170.1	57.6			
FH (60°-80°)	2029.7	5.5			G2/5000
FVH (80°-90°)	71.1	0.2			G1/100
BL (0°-30°)	2141.5	5.8	B3/2500		
BM (30°-60°)	4711.1	12.8	B3/5000		
BH (60°-80°)	1484.2	4.0	B3/2500		G3/2500
BVH (80°-90°)	87.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	5118.8	5118.8	5118.8	5118.8	5118.8	5118.8	5118.8	5118.8	5118.8	5118.8	5118.8
2.5°	6584.0	6543.0	6420.2	6379.2	6233.6	5969.7	5878.7	5610.2	5496.5	5391.8	5269.0
5°	8326.6	8135.5	8121.9	7889.8	7553.1	7357.5	6775.1	6383.8	6024.3	5842.3	5505.6
7.5°	9436.9	9441.4	9441.4	9250.3	8981.9	8485.9	7962.6	7257.4	6715.9	6447.5	5874.1
10°	10492.5	10401.5	10351.4	10333.2	10151.2	9668.9	9109.3	8235.6	7494.0	7180.0	6151.7
12.5°	11238.7	11161.3	11275.1	11215.9	11084.0	10770.0	10242.2	9245.8	8317.5	7894.4	6597.6
15°	11593.6	11648.2	11739.2	11903.0	11843.9	11725.5	11143.1	10283.2	9204.8	8727.0	6993.5
17.5°	12139.6	11989.5	12098.7	12303.4	12467.2	12412.6	12080.5	11033.9	10083.0	9496.0	7525.8
20°	12521.8	12435.4	12490.0	12726.6	12849.4	13158.8	12985.9	12016.8	10924.7	10305.9	8153.7
22.5°	13613.8	13486.4	13309.0	13345.4	13390.9	13609.3	13650.2	13095.1	11903.0	11247.8	8749.8
25°	14960.7	14842.4	14633.0	14419.2	14287.2	14246.3	14387.3	13941.4	12840.3	12162.4	9391.4
27.5°	16444.0	16243.8	16111.8	15670.5	15315.6	15261.0	15192.7	14951.6	13950.5	13218.0	10114.8
30°	17886.4	17727.1	17549.6	16844.4	16475.8	16416.7	16080.0	16148.2	15156.3	14341.8	10933.8
32.5°	18978.4	18992.0	18587.1	18054.7	17708.9	17394.9	17272.1	17467.7	16703.3	16048.1	11848.4
35°	19861.1	19902.0	19515.3	19033.0	18659.9	18878.3	18823.7	18914.7	18550.7	17749.9	12913.1
37.5°	20721.1	20516.3	20102.2	19870.2	19674.5	20034.0	20498.1	20575.4	20643.7	19701.8	14150.7
40°	20862.1	20880.3	20639.1	20803.0	20557.2	21098.7	22177.1	22077.0	22354.5	21531.0	15493.0
42.5°	20661.9	20702.9	20798.4	21030.5	21622.0	22272.6	23874.3	23464.7	23801.5	23068.9	16798.9
45°	20334.3	20165.9	20284.2	21167.0	22190.7	23637.7	25425.8	25107.3	24998.1	24383.9	18355.0
47.5°	18769.1	18942.0	19310.5	20398.0	21935.9	23874.3	26526.9	26454.1	26781.8	26349.5	19770.1
50°	16598.7	16530.4	17240.2	18464.2	20448.0	23410.1	26467.8	27127.6	27832.8	27232.2	20402.5
52.5°	12430.8	12794.8	13404.5	14924.3	17754.4	20880.3	25175.6	26276.7	26850.0	26722.6	19892.9
55°	7858.0	7967.2	8335.7	10142.1	12690.2	16757.9	21581.0	24133.6	25157.4	25635.1	19424.3
57.5°	3817.5	3612.8	4063.2	5514.7	7330.2	11270.5	16644.2	21021.4	23246.3	24110.9	18405.1
60°	1992.9	2070.3	2247.7	2766.4	3790.2	5851.4	10374.2	14009.7	17408.6	18737.2	13950.5
62.5°	1651.7	1679.0	1797.3	2056.6	2520.7	3367.1	5296.3	6829.7	8877.2	10073.9	7935.3
65°	1401.4	1415.1	1542.5	1715.4	2011.1	2370.6	2725.5	2852.9	3453.5	3544.5	2821.0
67.5°	1169.4	1183.0	1319.5	1483.3	1674.4	1770.0	1861.0	1851.9	1920.1	1892.8	1888.3
70°	900.9	914.6	1055.6	1228.5	1324.1	1269.5	1551.6	1615.3	1642.6	1665.3	1701.7
72.5°	650.7	678.0	787.2	910.0	860.0	987.4	1278.6	1374.1	1410.5	1424.2	1469.7
75°	473.2	482.3	509.6	473.2	546.0	687.1	900.9	1019.2	1064.7	1078.4	1146.6
77.5°	209.3	213.9	218.4	273.0	350.4	427.7	536.9	632.5	696.2	714.4	732.6
80°	109.2	113.8	141.1	186.6	250.3	314.0	391.3	445.9	486.9	491.4	509.6
82.5°	68.3	72.8	100.1	132.0	177.5	232.1	286.7	332.2	364.0	368.6	373.1
85°	31.9	41.0	59.2	81.9	118.3	150.2	154.7	132.0	141.1	145.6	136.5
87.5°	9.1	13.7	18.2	13.7	18.2	18.2	22.8	27.3	27.3	27.3	31.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P532870

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5118.8	5118.8	5118.8	5118.8	5118.8	5118.8	5118.8	5118.8	5118.8	5118.8	5118.8
2.5°	5200.7	5159.8	5000.5	4941.4	4786.7	4814.0	4732.1	4727.5	4709.3	4704.8	4700.2
5°	5328.1	5200.7	5009.6	4864.0	4777.6	4768.5	4709.3	4709.3	4727.5	4741.2	4709.3
7.5°	5537.4	5391.8	5068.8	4932.3	4854.9	4841.3	4800.3	4768.5	4809.4	4795.8	4759.4
10°	5778.6	5523.8	5182.5	5064.2	4936.8	4905.0	4905.0	4918.6	4850.4	4873.1	4836.7
12.5°	6047.1	5705.8	5328.1	5191.6	5041.5	5023.3	5014.2	4914.1	4950.5	4932.3	4841.3
15°	6388.3	5915.1	5514.7	5282.6	5155.2	5073.3	4955.0	4936.8	4914.1	4868.6	4827.6
17.5°	6756.9	6142.6	5601.1	5309.9	5118.8	5059.7	4968.7	4873.1	4804.9	4814.0	4782.1
20°	7070.8	6351.9	5633.0	5337.2	5091.5	4977.8	4836.7	4777.6	4704.8	4700.2	4695.7
22.5°	7443.9	6634.0	5678.5	5264.4	5009.6	4891.3	4795.8	4691.1	4641.1	4577.4	4609.2
25°	7889.8	6743.2	5687.6	5223.5	4950.5	4741.2	4691.1	4577.4	4559.2	4468.2	4486.4
27.5°	8212.9	6802.4	5614.8	5096.1	4814.0	4654.7	4563.7	4481.8	4450.0	4381.7	4363.5
30°	8645.1	6893.4	5460.1	4936.8	4677.5	4500.0	4445.4	4427.2	4336.2	4263.4	4254.3
32.5°	9136.6	6952.5	5360.0	4773.0	4536.4	4399.9	4427.2	4340.8	4227.0	4163.3	4145.1
35°	9527.9	6975.3	5109.7	4586.5	4440.9	4354.4	4322.6	4304.4	4140.6	4081.4	4035.9
37.5°	10123.9	6925.2	4900.4	4454.5	4336.2	4304.4	4277.1	4154.2	3967.7	3881.2	3817.5
40°	10820.1	6911.6	4632.0	4268.0	4236.1	4272.5	4190.6	3999.5	3740.2	3644.6	3599.1
42.5°	11488.9	7007.1	4463.6	4167.9	4126.9	4140.6	4026.8	3740.2	3612.8	3558.2	3485.4
45°	12608.3	7207.3	4186.1	4013.2	3995.0	3985.9	3849.4	3549.1	3476.3	3408.0	3394.4
47.5°	13618.4	7075.4	4008.6	3853.9	3872.1	3822.1	3530.9	3435.3	3353.4	3285.2	3262.4
50°	13677.5	6761.4	3758.4	3731.1	3735.6	3649.2	3371.6	3307.9	3203.3	3157.8	3125.9
52.5°	13368.1	6247.3	3526.3	3535.4	3549.1	3408.0	3176.0	3130.5	3044.0	2980.3	2962.1
55°	12499.1	5446.4	3298.8	3335.2	3371.6	3103.2	3030.4	2916.6	2848.3	2757.3	2761.9
57.5°	11011.2	4386.3	2980.3	3039.5	3116.8	2821.0	2766.4	2625.4	2525.3	2452.5	2443.4
60°	7380.2	3121.4	2502.5	2525.3	2698.2	2579.9	2575.3	2434.3	2297.8	2234.1	2197.7
62.5°	4354.4	2384.2	2161.3	2138.5	2134.0	2202.2	2316.0	2265.9	2088.5	1965.6	2002.0
65°	2279.6	2061.2	2011.1	1933.8	1888.3	1870.1	1956.5	1979.3	1861.0	1729.0	1719.9
67.5°	1915.6	1915.6	1874.6	1847.3	1783.6	1706.3	1651.7	1578.9	1560.7	1524.3	1478.8
70°	1742.7	1788.2	1774.5	1710.8	1656.2	1569.8	1428.7	1310.4	1196.7	1155.7	1183.0
72.5°	1519.7	1565.2	1565.2	1533.4	1460.6	1328.6	1192.1	1055.6	960.1	887.3	878.2
75°	1169.4	1192.1	1246.7	1210.3	1114.8	1032.9	891.8	750.8	659.8	591.5	577.9
77.5°	746.2	782.6	782.6	778.1	709.8	632.5	541.5	441.4	373.1	323.1	309.4
80°	496.0	518.7	536.9	518.7	473.2	414.1	345.8	277.6	227.5	186.6	177.5
82.5°	364.0	391.3	405.0	386.8	341.3	295.8	245.7	195.7	145.6	113.8	104.7
85°	141.1	145.6	163.8	195.7	191.1	186.6	150.2	109.2	81.9	59.2	54.6
87.5°	36.4	31.9	36.4	36.4	31.9	27.3	27.3	27.3	27.3	13.7	18.2
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)