

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: P651036

Luminaire Tested: **GALN-SA7C-840-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651036
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-SA7C-840-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1050mA 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: 24592.5 lumens
Efficiency: N/A
Efficacy: 65.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

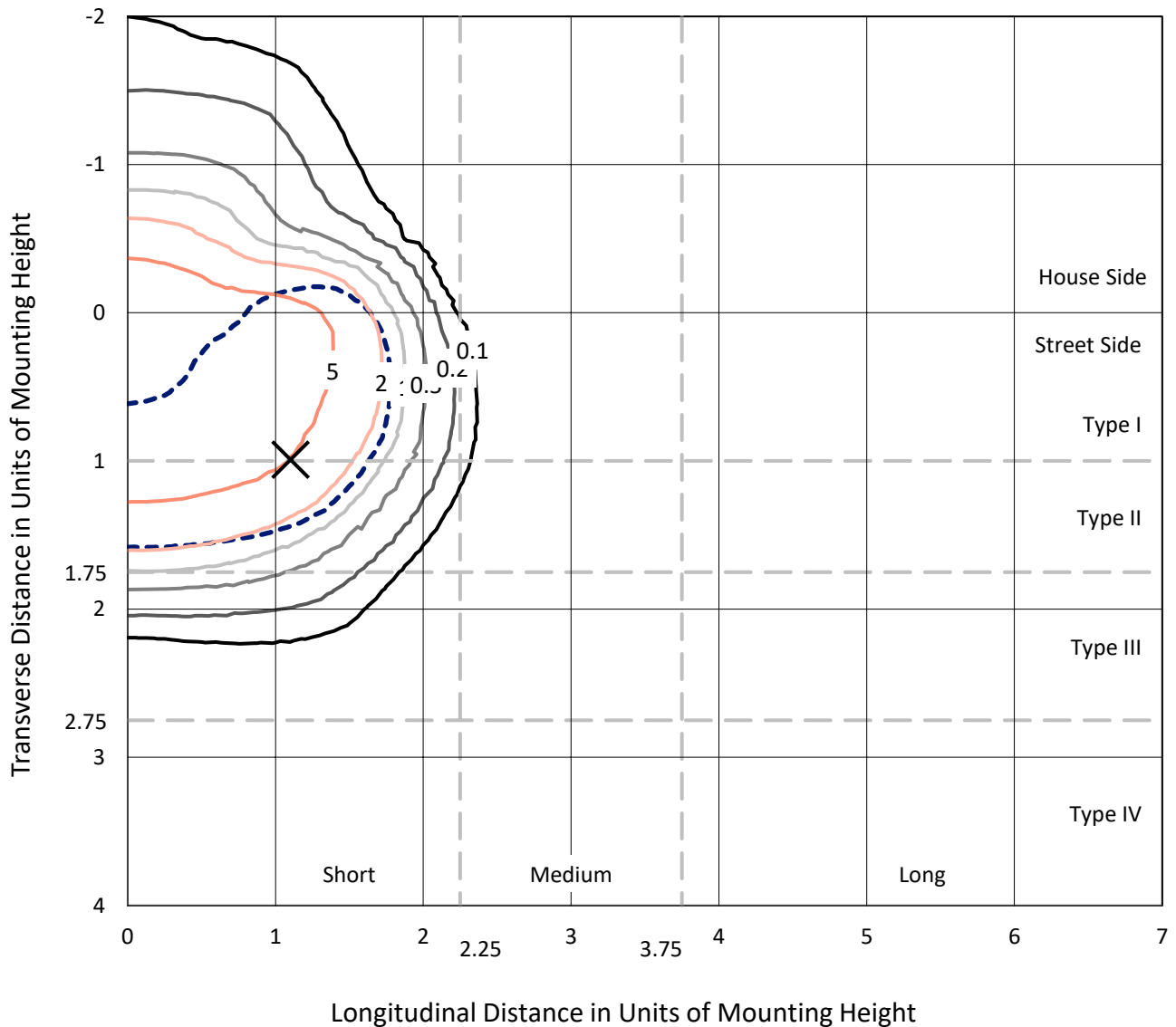
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651036
 CATALOG NUMBER: GALN-SA7C-840-U-T3-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

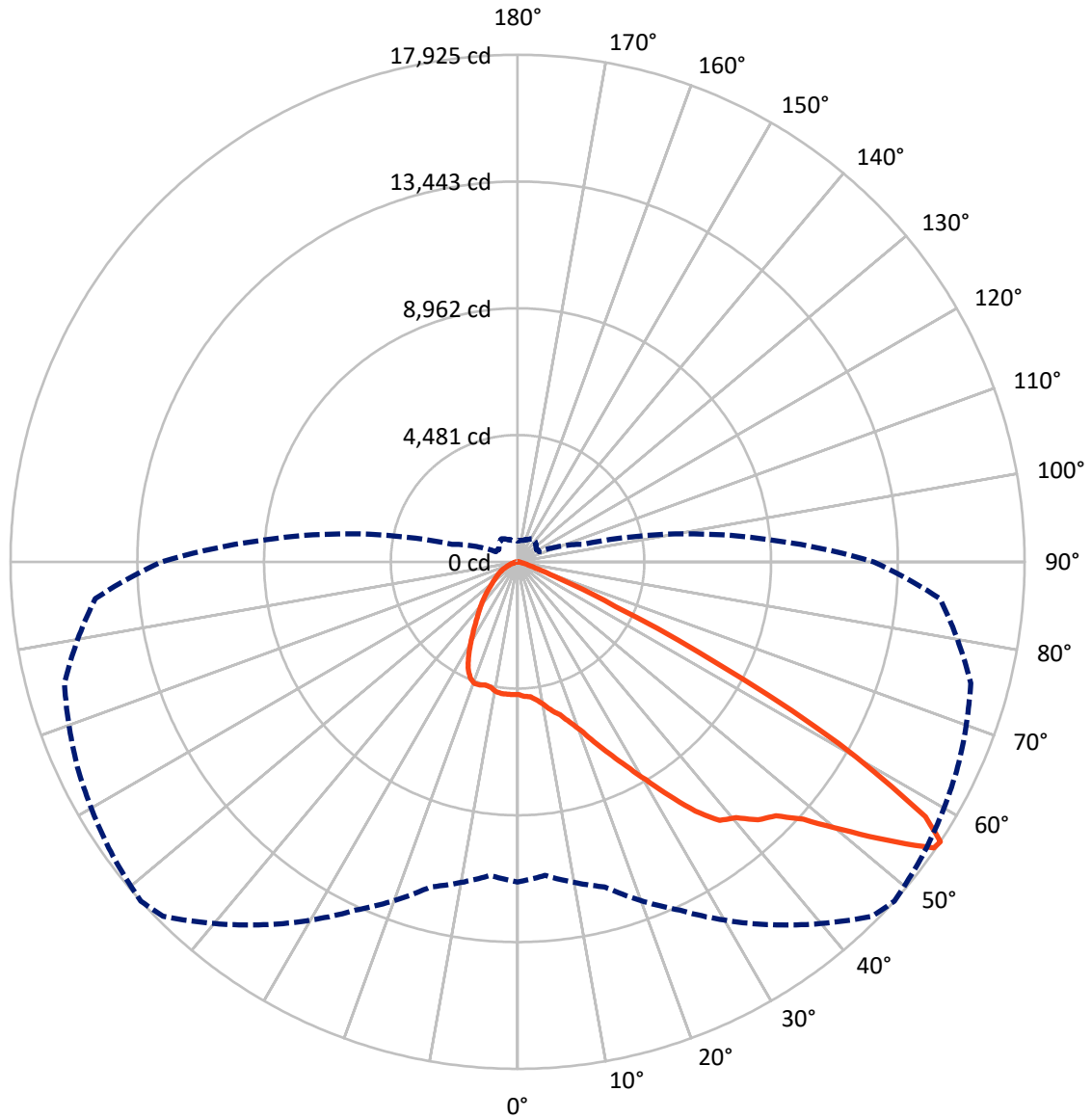
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Short - N/A

REPORT NUMBER: P651036
CATALOG NUMBER: GALN-SA7C-840-U-T3-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P651036
 CATALOG NUMBER: GALN-SA7C-840-U-T3-GRSBK

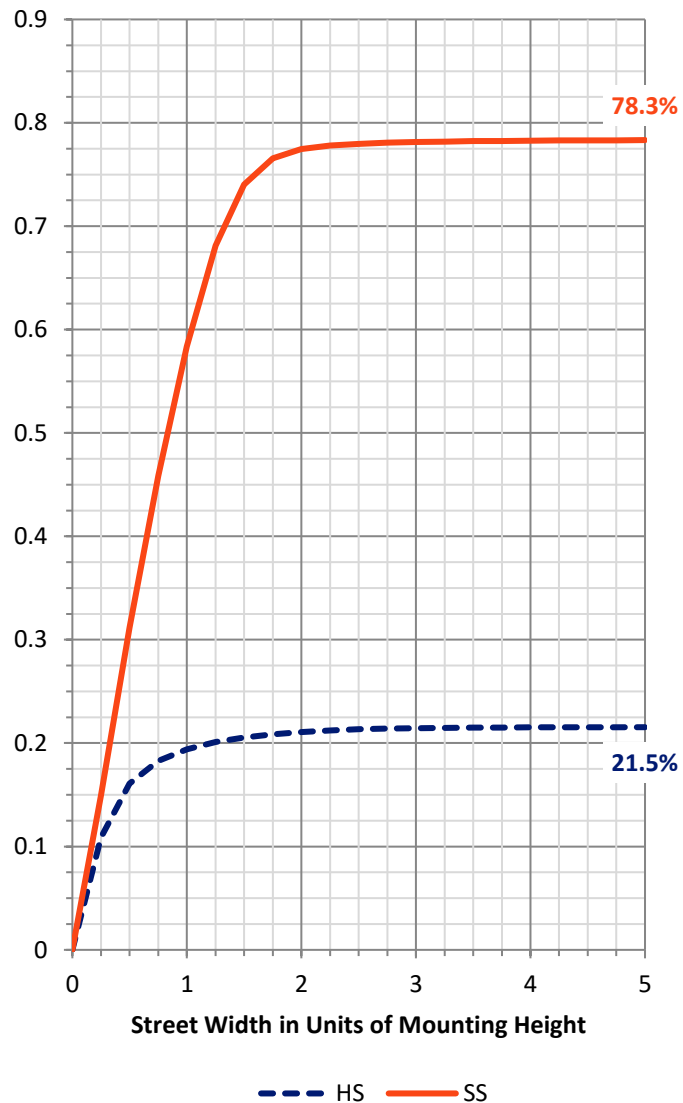
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5348.4	0.0	5348.4
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	19244.1	0.0	19244.1
	% Fixture	78.3	0.0	78.3
Total	Lumens	24592.5	0.0	24592.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.6	1.9
10°-20°	1462.3	5.9
20°-30°	2652.3	10.8
30°-40°	4166.2	16.9
40°-50°	6077.7	24.7
50°-60°	7322.5	29.8
60°-70°	2143.9	8.7
70°-80°	272.0	1.1
80°-90°	38.1	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°	24592.5	100.0
0°-180°	24592.5	100.0

Coefficient of Utilization



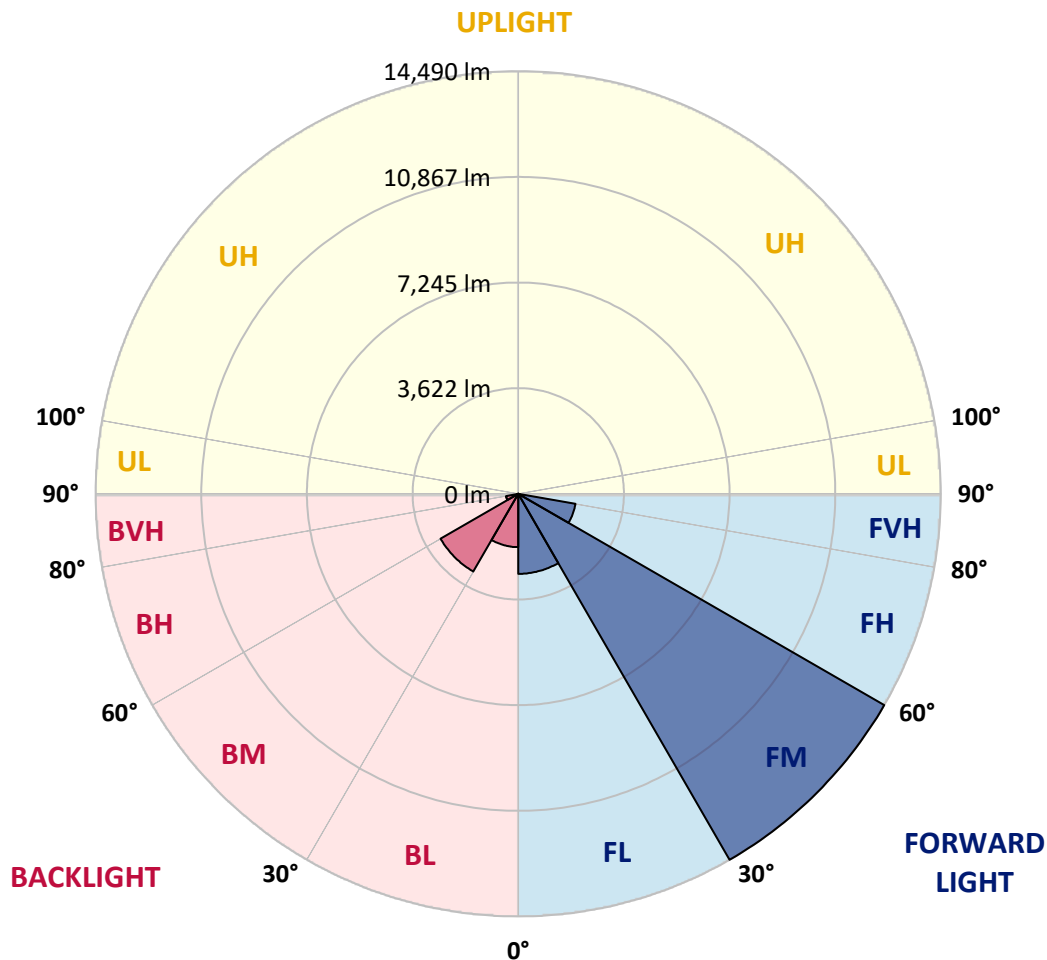
REPORT NUMBER: P651036
 CATALOG NUMBER: GALN-SA7C-840-U-T3-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2744.0	11.2			
FM (30°-60°)	14490.0	58.9			
FH (60°-80°)	1990.9	8.1			G2/5000
FVH (80°-90°)	19.2	0.1			G1/100
BL (0°-30°)	1828.1	7.4	B3/2500		
BM (30°-60°)	3076.4	12.5	B3/5000		
BH (60°-80°)	425.0	1.7	B1/500		G1/500
BVH (80°-90°)	19.0	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-G2

Type II Short





REPORT NUMBER: P651036

CATALOG NUMBER: GALN-SA7C-840-U-T3-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	4697.2	4697.2	4697.2	4697.2	4697.2	4697.2	4697.2	4697.2	4697.2	4697.2	4697.2
2.5°	4782.3	4759.9	4759.9	4724.1	4764.3	4746.4	4759.9	4715.1	4759.9	4692.7	4746.4
5°	4804.6	4809.1	4791.2	4813.6	4813.6	4840.5	4795.7	4836.0	4858.4	4809.1	4786.7
7.5°	4921.1	4930.0	4925.6	4907.7	4943.5	4938.9	4934.5	4903.2	4912.1	4894.2	4867.4
10°	5149.4	5145.0	5167.4	5122.5	5095.7	5127.1	5136.0	5086.8	5051.0	5037.5	4952.4
12.5°	5480.8	5427.1	5395.7	5350.9	5364.4	5319.6	5400.2	5315.1	5297.2	5216.6	5131.5
15°	5749.5	5740.5	5745.0	5673.3	5592.7	5610.6	5610.6	5565.9	5539.0	5440.5	5319.6
17.5°	6300.2	6112.1	6152.4	6062.9	5995.7	5991.3	5951.0	5959.9	5888.3	5682.3	5498.7
20°	6730.1	6649.5	6586.8	6434.6	6331.6	6362.9	6345.0	6300.2	6277.8	6009.2	5749.5
22.5°	7115.2	7142.0	7039.1	6998.7	6855.5	6868.9	6904.7	6864.4	6694.3	6416.7	6031.6
25°	7657.0	7625.7	7486.8	7437.6	7303.2	7352.5	7491.3	7460.0	7352.5	6851.0	6251.0
27.5°	8297.3	8189.8	8216.7	7992.9	7862.9	8001.8	8167.5	8324.2	8019.7	7361.4	6510.7
30°	8749.6	8637.7	8628.7	8619.7	8588.4	8749.6	8942.1	9085.4	8839.2	7871.9	6940.5
32.5°	8973.5	9000.3	9076.4	9049.6	9322.7	9654.1	9855.6	10061.6	9752.6	8704.8	7509.2
35°	9569.0	9398.8	9569.0	9586.9	9869.0	10572.0	10827.3	11319.8	11243.7	9882.4	8203.3
37.5°	9918.2	9904.8	9927.2	10097.4	10370.5	11239.2	11601.9	11982.5	11839.3	10590.0	9067.5
40°	10495.9	10531.8	10527.2	10657.1	10957.1	11740.7	11888.5	12197.4	12210.9	11570.6	10339.2
42.5°	11422.8	11279.5	11185.5	11319.8	11740.7	12175.1	12470.6	12407.9	12851.2	12761.7	11973.6
45°	12255.6	12340.7	12201.9	12425.8	12578.1	12810.9	12802.0	12936.3	13500.5	13925.9	13205.0
47.5°	13034.8	13088.6	13155.7	13307.9	13639.3	13675.1	13599.0	13540.8	14319.9	14758.7	14158.7
50°	13500.5	13549.8	13863.2	14136.3	14754.3	14834.8	14879.6	14731.9	15260.3	15309.5	15058.8
52.5°	13375.1	13428.8	13867.7	14767.7	15752.8	16491.7	16357.3	16106.6	16075.2	16267.7	15891.6
55°	12264.6	12215.4	12819.9	14221.4	16066.2	17839.5	17857.4	17593.1	17087.2	16957.3	15766.2
56°	11319.8	11127.3	11897.5	13590.1	15663.2	17723.0	17924.5	17642.4	17167.8	16585.7	14991.6
57.5°	9273.5	9457.0	10222.8	11624.3	14270.7	16885.7	17002.1	16935.0	16576.7	15600.6	13191.5
60°	5113.6	5436.1	6112.1	7827.1	10160.0	12958.6	13052.7	13599.0	13666.2	11946.7	9076.4
62.5°	2171.7	2135.9	2838.9	4101.6	5785.2	7822.6	7997.3	8557.0	8660.0	6886.8	4553.9
65°	882.1	931.4	1285.1	2064.2	3058.3	3564.3	3810.6	3994.2	4334.5	2843.4	1679.1
67.5°	582.1	577.6	756.7	1177.7	1647.9	1589.6	1589.6	1679.1	1553.7	1159.7	725.4
70°	416.5	429.8	541.8	814.9	1025.4	761.2	729.9	698.5	792.6	765.7	586.6
72.5°	273.2	291.1	362.7	488.1	532.9	416.5	416.5	501.5	653.8	618.0	479.1
75°	179.1	183.6	223.9	282.1	264.2	215.0	237.3	335.8	474.7	456.7	340.3
77.5°	120.9	125.4	152.2	183.6	147.8	120.9	129.9	170.1	232.9	232.9	179.1
80°	44.7	49.3	62.7	58.2	67.2	85.1	94.0	116.4	138.8	138.8	120.9
82.5°	0.0	4.5	13.5	31.4	49.3	67.2	76.1	89.6	103.0	116.4	111.9
85°	0.0	4.5	13.5	22.4	35.8	40.3	44.7	31.4	26.8	26.8	22.4
87.5°	0.0	0.0	4.5	4.5	4.5	4.5	4.5	4.5	8.9	4.5	4.5
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: P651036

CATALOG NUMBER: GALN-SA7C-840-U-T3-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4697.2	4697.2	4697.2	4697.2	4697.2	4697.2	4697.2	4697.2	4697.2	4697.2	4697.2
2.5°	4697.2	4692.7	4692.7	4679.2	4706.2	4692.7	4701.7	4697.2	4639.0	4683.8	4652.4
5°	4746.4	4777.8	4728.5	4719.6	4683.8	4697.2	4697.2	4652.4	4692.7	4688.2	4679.2
7.5°	4871.8	4818.1	4764.3	4710.6	4701.7	4688.2	4639.0	4621.0	4652.4	4616.6	4670.3
10°	4925.6	4934.5	4853.9	4782.3	4715.1	4621.0	4553.9	4513.6	4464.4	4518.1	4549.4
12.5°	5171.8	5082.2	4943.5	4831.5	4603.1	4509.1	4441.9	4424.0	4509.1	4527.0	4495.6
15°	5256.9	5243.5	5064.3	4813.6	4576.3	4464.4	4477.7	4441.9	4450.9	4406.2	4415.1
17.5°	5431.5	5279.3	5068.9	4755.4	4571.8	4544.9	4464.4	4321.1	4240.5	4204.7	4235.9
20°	5624.1	5476.3	5171.8	4777.8	4612.1	4540.5	4276.2	4101.6	3936.0	3846.4	3850.9
22.5°	5794.2	5610.6	5127.1	4786.7	4648.0	4352.4	4034.4	3689.7	3483.7	3344.9	3349.4
25°	6000.2	5740.5	5145.0	4804.6	4553.9	4052.4	3595.6	3259.8	3013.6	2919.5	2950.8
27.5°	6116.7	5821.1	5243.5	4844.9	4307.6	3627.0	3134.4	2821.0	2677.7	2632.9	2628.5
30°	6465.9	6000.2	5364.4	4764.3	3895.7	3170.2	2713.6	2521.0	2382.1	2341.8	2350.8
32.5°	6985.3	6327.1	5521.1	4553.9	3474.8	2762.8	2440.4	2297.1	2167.3	2091.1	2082.1
35°	7419.6	6886.8	5686.8	4227.0	2986.6	2449.3	2247.8	2068.7	1871.7	1786.6	1764.2
37.5°	8248.0	7518.2	5650.9	3734.5	2521.0	2216.5	2041.9	1822.4	1652.3	1535.8	1522.5
40°	9349.6	8257.0	5476.3	3134.4	2176.2	2010.5	1822.4	1612.0	1401.5	1303.0	1294.0
42.5°	10688.4	9161.5	5158.4	2525.4	1831.4	1804.5	1634.4	1392.6	1204.5	1132.9	1137.4
45°	11776.5	9936.2	4836.0	2028.4	1576.2	1603.0	1455.3	1226.9	1097.1	1038.8	1038.8
47.5°	12743.8	10460.1	4486.7	1674.7	1338.9	1401.5	1271.7	1137.4	1025.4	980.6	971.7
50°	13675.1	10993.0	4137.5	1356.8	1141.8	1204.5	1191.1	1083.6	994.1	940.3	944.8
52.5°	14257.2	11078.0	3694.2	1110.5	998.5	1070.2	1115.0	1016.4	918.0	886.6	877.7
55°	13545.2	9981.0	2865.8	913.5	846.3	940.3	1025.4	913.5	837.4	783.6	779.1
56°	12587.0	8924.2	2395.6	841.8	801.6	904.5	994.1	873.1	788.1	756.7	734.4
57.5°	10657.1	7303.2	1768.7	747.8	743.3	841.8	944.8	832.8	734.4	707.4	707.4
60°	6645.0	4110.6	1070.2	626.9	644.8	747.8	850.8	743.3	653.8	653.8	667.2
62.5°	3027.0	1710.5	649.3	532.9	555.2	644.8	756.7	671.7	622.4	671.7	680.6
65°	1029.9	738.8	470.2	425.4	438.8	532.9	649.3	680.6	676.2	707.4	725.4
67.5°	577.6	474.7	394.0	353.7	344.8	394.0	532.9	680.6	653.8	640.3	649.3
70°	488.1	403.0	349.3	313.4	300.0	317.9	411.9	514.9	461.2	447.7	438.8
72.5°	394.0	335.8	304.5	282.1	241.8	206.0	188.0	197.0	219.4	232.9	255.2
75°	277.6	255.2	255.2	228.3	174.6	129.9	103.0	85.1	58.2	40.3	44.7
77.5°	156.8	156.8	161.2	138.8	111.9	85.1	62.7	44.7	22.4	8.9	4.5
80°	107.5	116.4	125.4	111.9	94.0	76.1	53.7	31.4	13.5	0.0	0.0
82.5°	107.5	120.9	129.9	111.9	94.0	71.7	53.7	31.4	13.5	4.5	0.0
85°	22.4	26.8	31.4	35.8	53.7	53.7	40.3	26.8	13.5	4.5	0.0
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	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)