

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: P532209

Luminaire Tested: **GALN-SA7C-740-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532209
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-740-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28582 lumens
Efficiency: N/A
Efficacy: 75.8 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

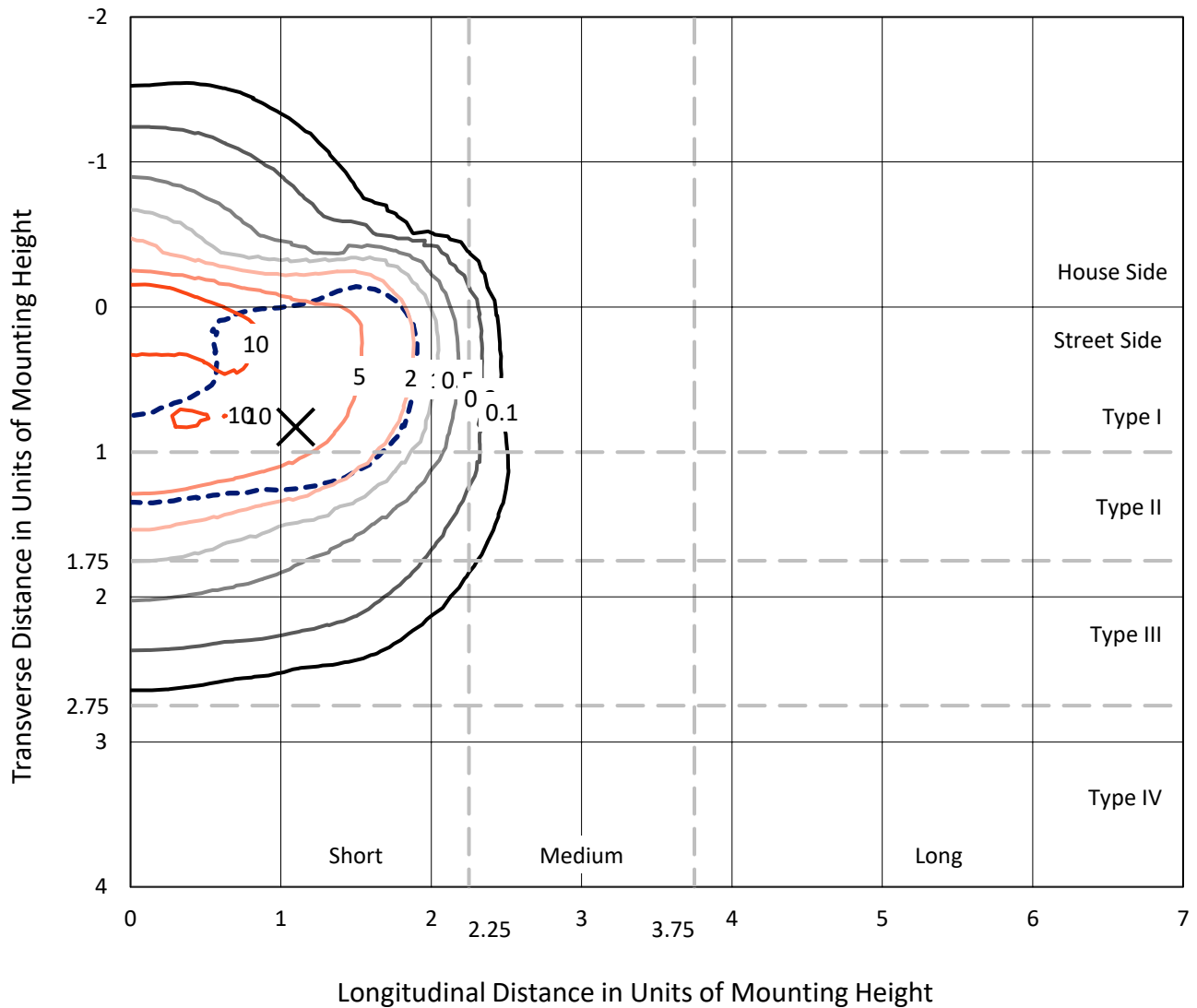
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

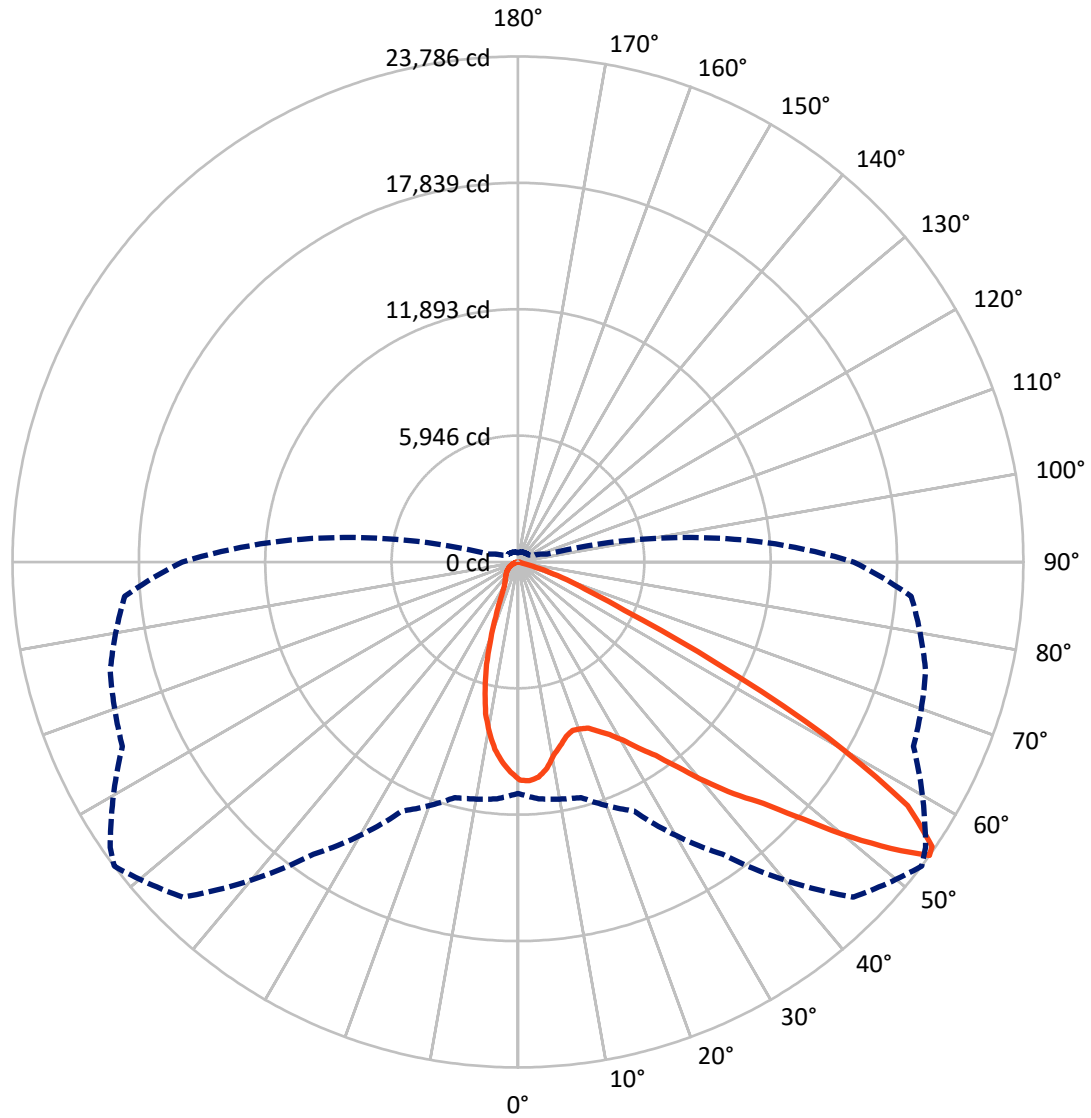
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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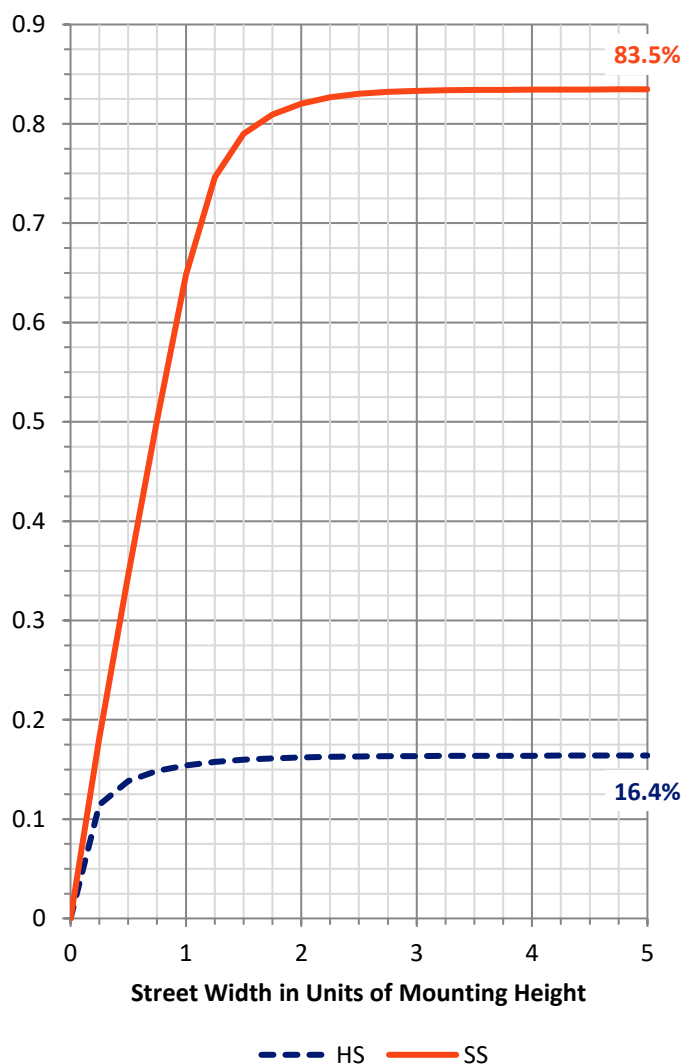
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4729.0	0.0	4729.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	23853.0	0.0	23853.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	28582.0	0.0	28582.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	880.8	3.1
10°-20°	2019.4	7.1
20°-30°	2870.0	10.0
30°-40°	4429.2	15.5
40°-50°	6944.6	24.3
50°-60°	8067.1	28.2
60°-70°	3048.3	10.7
70°-80°	289.9	1.0
80°-90°	32.6	0.1
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°	28582.0	100.0
0°-180°	28582.0	100.0

Coefficient of Utilization



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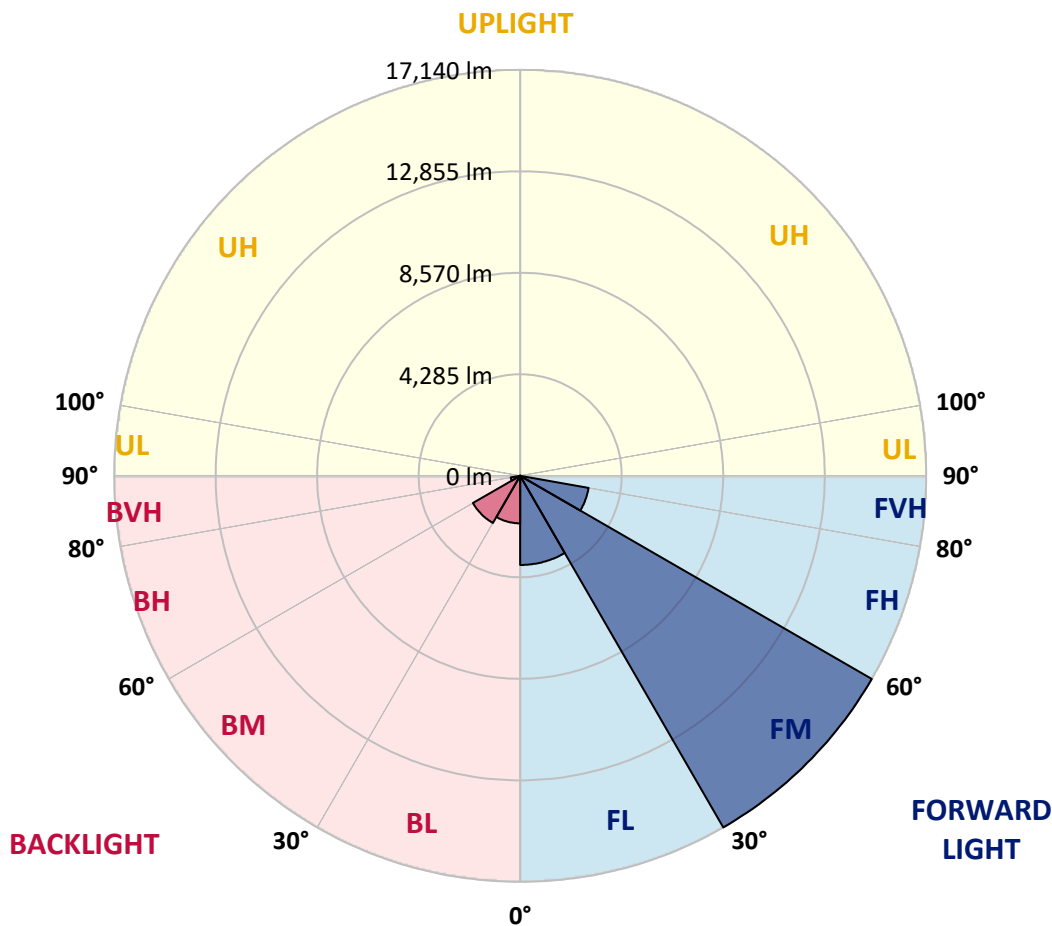
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3763.5	13.2			
FM (30°-60°)	17139.7	60.0			
FH (60°-80°)	2932.9	10.3			G2/5000
FVH (80°-90°)	16.8	0.1			G1/100
BL (0°-30°)	2006.8	7.0	B3/2500		
BM (30°-60°)	2301.3	8.1	B2/2500		
BH (60°-80°)	405.2	1.4	B1/500		G1/500
BVH (80°-90°)	15.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	10266.2	10266.2	10266.2	10266.2	10266.2	10266.2	10266.2	10266.2	10266.2	10266.2	10266.2
2.5°	10212.9	10122.4	10212.9	10223.6	10287.5	10346.0	10308.8	10394.0	10346.0	10292.8	10276.8
5°	9387.6	9510.1	9515.4	9707.1	9664.5	10015.9	10170.3	10127.7	10388.6	10372.7	10335.4
7.5°	8647.4	8599.5	8663.4	8887.1	9169.3	9574.0	9797.6	9792.3	10165.0	10431.2	10404.6
10°	7960.5	7955.2	8088.3	8264.1	8503.7	8929.7	9238.5	9392.9	9973.3	10378.0	10436.6
12.5°	7497.3	7476.0	7619.8	7763.5	8141.6	8471.7	8865.8	8940.3	9605.9	10191.6	10287.5
15°	7193.8	7241.7	7252.3	7529.2	7768.9	8205.5	8514.3	8668.7	9435.5	10042.5	10409.9
17.5°	7140.5	7204.4	7209.7	7438.7	7694.3	8061.7	8333.3	8540.9	9291.7	10117.1	10415.3
20°	7247.0	7209.7	7241.7	7385.5	7635.7	7987.2	8381.2	8450.4	9243.8	10154.4	10473.8
22.5°	7550.5	7539.9	7460.0	7577.2	7752.9	8120.3	8493.0	8599.5	9382.3	10346.0	10521.8
25°	7886.0	7944.6	7870.0	7854.0	7976.5	8338.6	8833.8	8972.3	9845.5	10692.2	10670.9
27.5°	8514.3	8455.7	8455.7	8381.2	8349.3	8525.0	9201.2	9430.2	10362.0	11139.4	10841.2
30°	9116.0	9179.9	9132.0	9158.6	8945.6	8929.7	9723.0	10005.3	11277.9	11821.0	11203.3
32.5°	10069.2	9984.0	10063.8	9994.6	9712.4	9424.9	10431.2	10724.1	12385.4	12603.8	11746.5
35°	10862.5	10825.3	11166.1	11155.4	10697.5	10415.3	11182.0	11618.7	13157.5	13540.9	12385.4
37.5°	11991.4	11922.2	12310.9	12497.3	12087.2	11666.6	12257.6	12763.5	13876.4	14291.7	13040.4
40°	13152.2	13327.9	13849.7	14158.6	13722.0	13162.9	13572.9	13727.3	14355.6	14781.6	13487.7
42.5°	14621.8	14877.4	15409.9	15676.1	15638.9	15031.8	14909.4	14904.1	14701.7	14643.1	13817.8
45°	16032.9	15937.1	16757.1	17337.5	17806.1	17630.3	16198.0	16038.2	15250.2	14850.8	13903.0
47.5°	16650.6	16618.6	17177.7	18210.7	19808.2	20026.5	18072.3	17454.6	16176.7	15724.1	14366.3
50°	15851.9	16016.9	16570.7	17715.5	20164.9	21831.6	20372.6	19541.9	17257.6	16789.0	15463.2
52.5°	13242.7	13354.5	13881.7	15335.4	18950.9	22896.5	22577.1	22097.8	19243.7	18466.3	17374.8
54°	10889.2	11187.4	11474.9	12933.9	16789.0	22305.5	23785.8	23418.4	20537.7	19861.4	18578.2
55°	9483.4	9659.1	9866.8	11320.5	15292.8	21304.4	23647.3	23679.3	21405.6	20298.1	19387.5
57.5°	6927.5	7050.0	6837.0	7481.3	10500.5	17300.2	21629.2	22491.9	22577.1	20953.0	19882.7
60°	5292.8	5346.1	5106.5	5207.6	6528.2	11874.3	16730.5	17768.8	20367.3	18311.9	16842.3
62.5°	4105.4	4116.1	4110.7	4286.4	4499.4	6986.1	10463.2	11384.4	14041.4	13003.1	11437.6
65°	3024.5	2976.6	3061.7	3594.2	3839.2	4392.9	5511.1	6182.1	7630.4	6443.0	4605.9
67.5°	1959.5	1975.5	2060.7	2673.0	3290.7	3370.6	3391.9	3338.6	3344.0	1842.4	1155.5
70°	1176.8	1203.4	1176.8	1512.2	2353.6	2417.4	2209.8	2156.5	1682.6	436.6	431.3
72.5°	697.5	660.3	591.1	649.6	979.8	1171.5	1054.3	1049.0	660.3	255.6	255.6
75°	292.9	266.2	218.3	197.0	260.9	250.3	250.3	223.6	175.7	170.4	159.7
77.5°	58.6	58.6	42.6	47.9	63.9	74.5	90.5	90.5	106.5	106.5	101.2
80°	0.0	5.3	16.0	31.9	47.9	69.2	79.9	79.9	90.5	90.5	74.5
82.5°	0.0	5.3	16.0	31.9	42.6	63.9	79.9	79.9	90.5	95.8	79.9
85°	0.0	5.3	16.0	26.6	42.6	53.2	53.2	47.9	37.3	31.9	21.3
87.5°	0.0	0.0	5.3	10.6	5.3	10.6	10.6	10.6	10.6	10.6	10.6
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°	10266.2	10266.2	10266.2	10266.2	10266.2	10266.2	10266.2	10266.2	10266.2	10266.2	10266.2
2.5°	10314.1	10308.8	10181.0	9973.3	9925.4	9749.7	9728.4	9621.9	9680.4	9483.4	9462.1
5°	10228.9	10165.0	10010.6	9877.5	9488.8	9211.9	8993.6	8727.3	8572.9	8599.5	8498.3
7.5°	10351.4	10186.3	9914.7	9451.5	8977.6	8493.0	8232.1	7689.0	7492.0	7199.1	7156.5
10°	10223.6	10101.1	9680.4	8913.7	8258.7	7561.2	6948.8	6347.1	5889.2	5692.2	5649.6
12.5°	10212.9	9999.9	9297.1	8445.1	7497.3	6496.2	5607.0	4856.2	4403.6	4148.0	4089.4
15°	10047.9	9792.3	8865.8	7720.9	6411.0	5165.0	4195.9	3471.8	3125.6	2976.6	3019.1
17.5°	10063.8	9680.4	8434.4	6954.2	5340.8	3791.2	2864.7	2492.0	2401.5	2438.7	2438.7
20°	10047.9	9430.2	7912.6	6070.2	4089.4	2630.4	2103.3	1970.2	2028.7	2145.9	2119.3
22.5°	9962.7	9313.0	7433.4	5138.4	3008.5	1948.9	1688.0	1693.3	1783.8	1927.6	1959.5
25°	10026.6	9052.1	6826.4	4195.9	2193.8	1554.8	1464.3	1501.6	1597.4	1703.9	1725.2
27.5°	9978.6	8865.8	6192.7	3258.8	1602.8	1336.5	1331.2	1373.8	1416.4	1496.3	1496.3
30°	10031.9	8695.4	5569.7	2422.8	1320.5	1224.7	1203.4	1235.3	1277.9	1293.9	1288.6
32.5°	10228.9	8567.6	4850.9	1810.4	1166.1	1118.2	1118.2	1118.2	1112.9	1134.2	1139.5
35°	10660.2	8588.9	4217.2	1400.4	1065.0	1027.7	1011.7	990.4	979.8	990.4	995.7
37.5°	11128.8	8578.2	3562.3	1192.8	990.4	958.5	921.2	889.2	883.9	894.6	878.6
40°	11336.5	8679.4	2955.3	1070.3	921.2	883.9	825.3	798.7	804.0	814.7	804.0
42.5°	11618.7	8711.3	2561.2	974.4	857.3	798.7	761.4	729.5	724.2	740.1	734.8
45°	11613.3	8530.3	2145.9	921.2	798.7	734.8	686.9	660.3	660.3	670.9	676.2
47.5°	11954.1	8503.7	1842.4	873.3	756.1	692.2	633.6	612.3	607.0	607.0	596.4
50°	12747.5	8876.4	1608.1	820.0	702.9	644.3	596.4	569.8	548.5	537.8	532.5
52.5°	14297.0	10037.2	1427.0	756.1	644.3	596.4	553.8	532.5	505.9	479.2	473.9
54°	15798.6	11235.3	1416.4	702.9	596.4	564.4	527.2	516.5	484.6	447.3	436.6
55°	16474.9	11932.8	1453.7	660.3	564.4	543.1	511.2	500.5	468.6	426.0	420.7
57.5°	17034.0	12204.4	1432.4	548.5	511.2	505.9	479.2	463.3	426.0	367.4	356.8
60°	13711.3	9227.8	1027.7	484.6	468.6	457.9	436.6	426.0	378.1	314.2	308.8
62.5°	8663.4	5308.8	654.9	426.0	410.0	394.0	367.4	356.8	314.2	250.3	234.3
65°	3690.1	2199.1	442.0	378.1	351.4	324.8	303.5	287.5	250.3	186.4	181.0
67.5°	958.5	782.7	367.4	330.1	292.9	255.6	239.6	213.0	170.4	127.8	122.5
70°	431.3	394.0	308.8	276.9	234.3	197.0	175.7	149.1	111.8	85.2	79.9
72.5°	255.6	250.3	234.3	207.7	175.7	149.1	127.8	101.2	74.5	47.9	47.9
75°	159.7	154.4	159.7	143.8	122.5	111.8	95.8	69.2	42.6	21.3	21.3
77.5°	95.8	95.8	95.8	90.5	85.2	85.2	69.2	42.6	21.3	5.3	5.3
80°	74.5	74.5	79.9	74.5	74.5	74.5	58.6	31.9	10.6	0.0	0.0
82.5°	74.5	79.9	90.5	85.2	74.5	63.9	53.2	31.9	10.6	0.0	0.0
85°	21.3	16.0	26.6	37.3	53.2	47.9	37.3	26.6	10.6	0.0	0.0
87.5°	10.6	10.6	10.6	10.6	5.3	5.3	5.3	5.3	5.3	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)