

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: P531195

Luminaire Tested: **GALN-SA6C-727-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531195
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-SA6C-727-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 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: 20350 lumens
Efficiency: N/A
Efficacy: 63.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

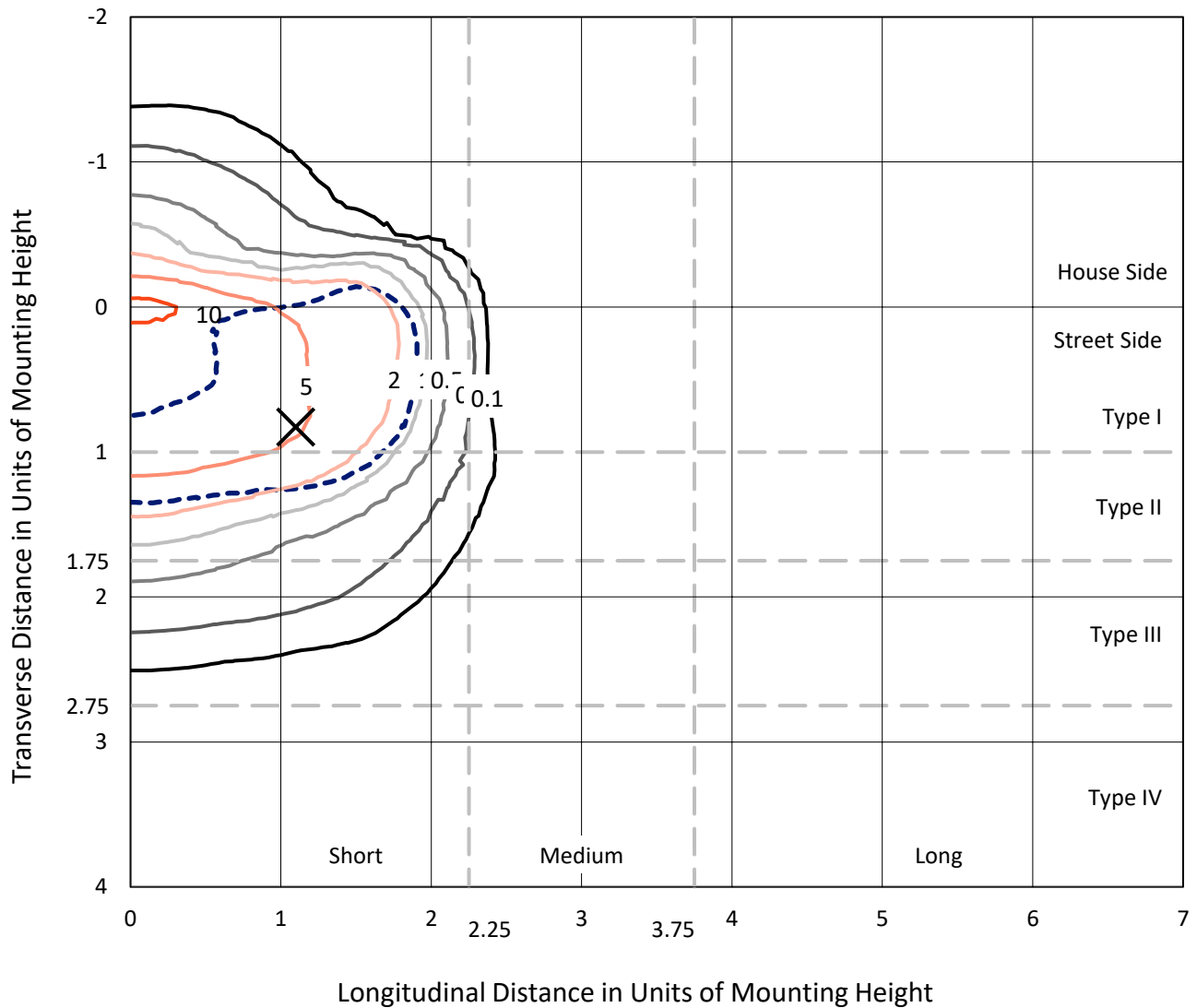
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

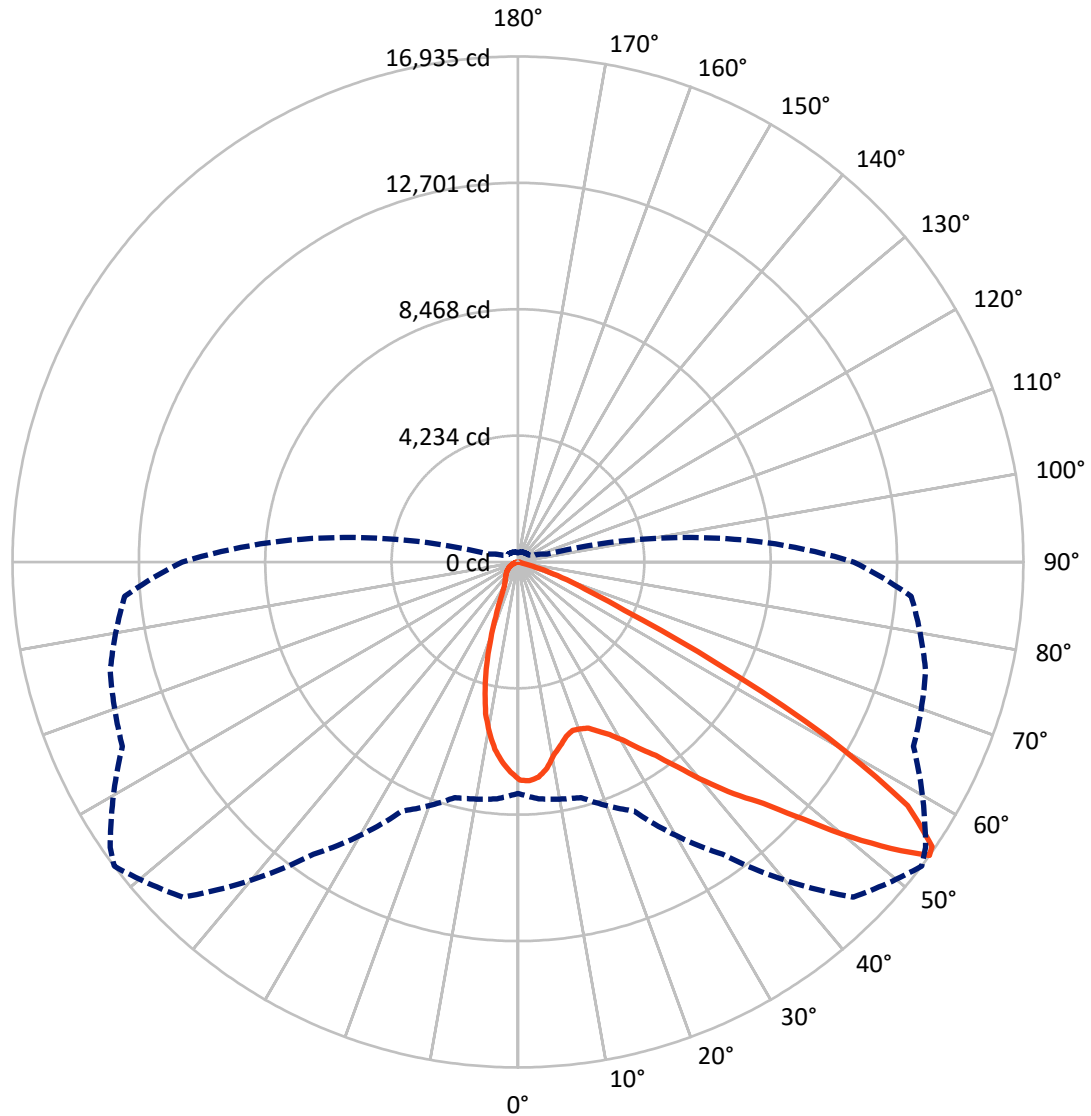
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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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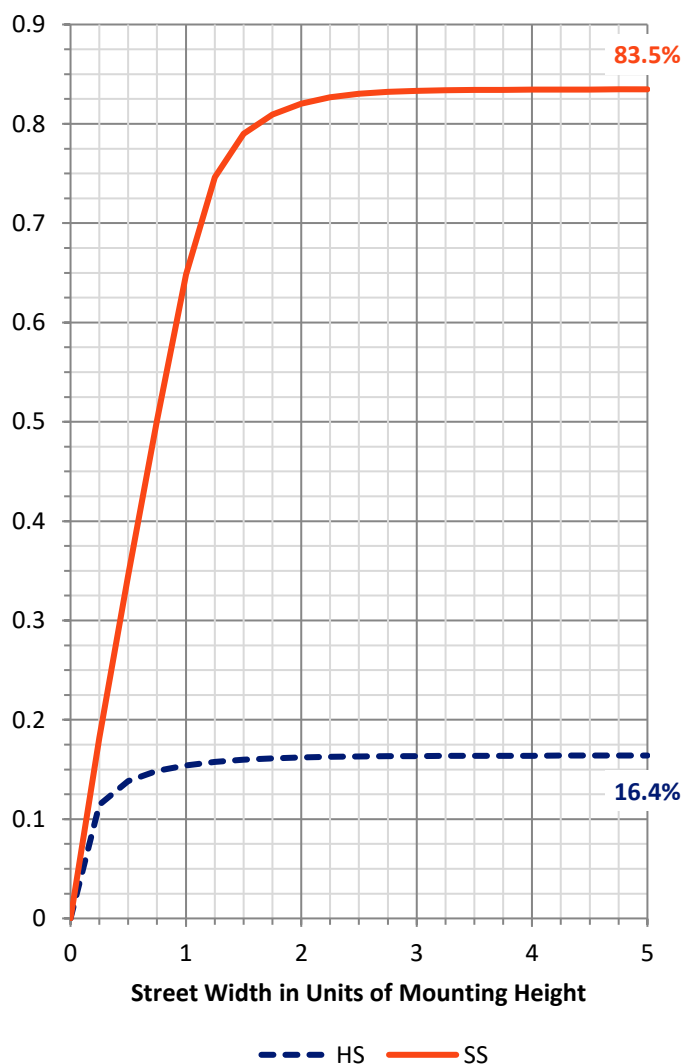
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3367.0	0.0	3367.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	16983.0	0.0	16983.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	20350.0	0.0	20350.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	627.1	3.1
10°-20°	1437.8	7.1
20°-30°	2043.4	10.0
30°-40°	3153.6	15.5
40°-50°	4944.5	24.3
50°-60°	5743.7	28.2
60°-70°	2170.3	10.7
70°-80°	206.4	1.0
80°-90°	23.2	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°	20350.0	100.0
0°-180°	20350.0	100.0

Coefficient of Utilization



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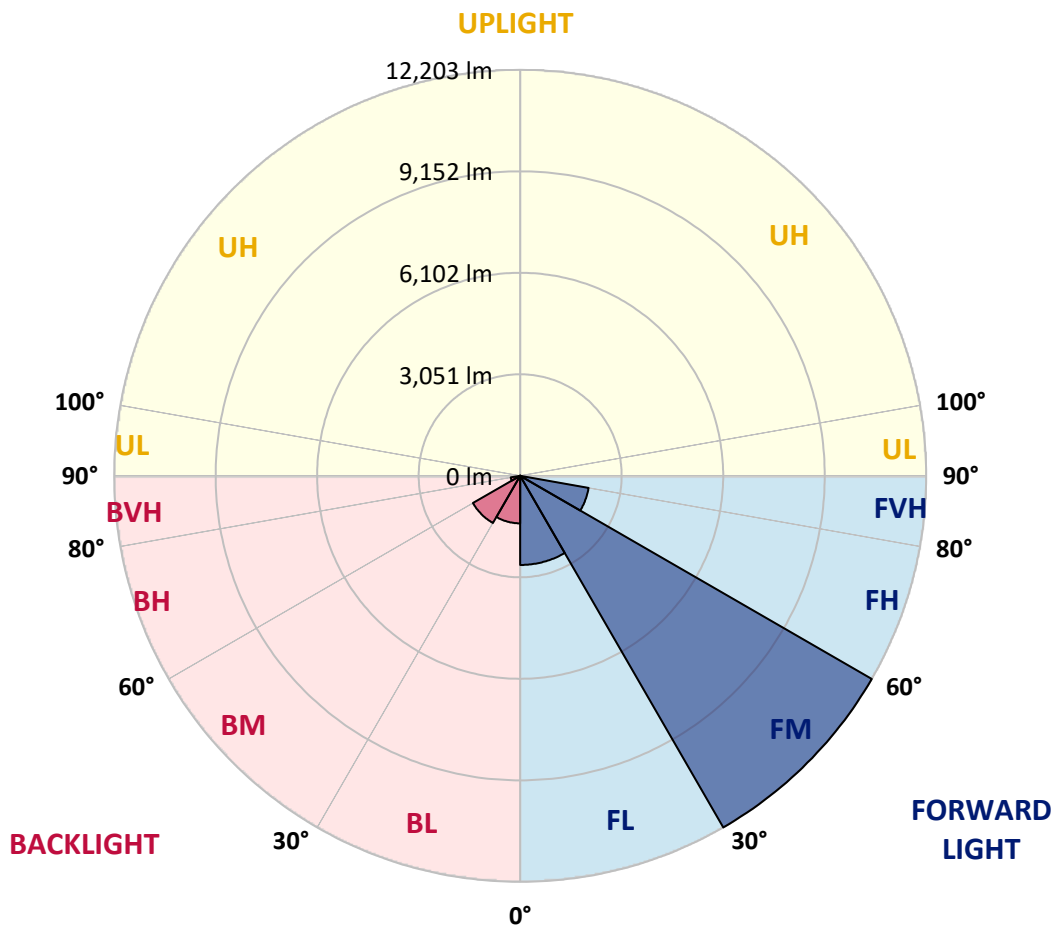
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2679.6	13.2			
FM (30°-60°)	12203.3	60.0			
FH (60°-80°)	2088.2	10.3			G2/5000
FVH (80°-90°)	12.0	0.1			G1/100
BL (0°-30°)	1428.8	7.0	B3/2500		
BM (30°-60°)	1638.5	8.1	B2/2500		
BH (60°-80°)	288.5	1.4	B1/500		G1/500
BVH (80°-90°)	11.2	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°	7309.4	7309.4	7309.4	7309.4	7309.4	7309.4	7309.4	7309.4	7309.4	7309.4	7309.4
2.5°	7271.5	7207.0	7271.5	7279.0	7324.5	7366.2	7339.7	7400.4	7366.2	7328.3	7317.0
5°	6683.8	6771.0	6774.8	6911.3	6881.0	7131.2	7241.1	7210.8	7396.6	7385.2	7358.7
7.5°	6156.9	6122.7	6168.2	6327.5	6528.4	6816.5	6975.8	6972.0	7237.3	7426.9	7407.9
10°	5667.8	5664.0	5758.8	5883.9	6054.5	6357.8	6577.7	6687.6	7100.9	7389.0	7430.7
12.5°	5338.0	5322.8	5425.2	5527.5	5796.7	6031.8	6312.3	6365.4	6839.3	7256.3	7324.5
15°	5121.9	5156.0	5163.6	5360.7	5531.3	5842.2	6062.1	6172.0	6718.0	7150.1	7411.7
17.5°	5084.0	5129.5	5133.2	5296.3	5478.2	5739.8	5933.2	6081.0	6615.6	7203.2	7415.5
20°	5159.8	5133.2	5156.0	5258.4	5436.5	5686.8	5967.3	6016.6	6581.5	7229.8	7457.2
22.5°	5375.9	5368.3	5311.4	5394.8	5519.9	5781.5	6046.9	6122.7	6680.0	7366.2	7491.4
25°	5614.7	5656.4	5603.4	5592.0	5679.2	5937.0	6289.6	6388.1	7009.9	7612.7	7597.5
27.5°	6062.1	6020.4	6020.4	5967.3	5944.6	6069.7	6551.1	6714.2	7377.6	7931.1	7718.8
30°	6490.5	6536.0	6501.9	6520.8	6369.2	6357.8	6922.7	7123.6	8029.7	8416.4	7976.6
32.5°	7169.1	7108.4	7165.3	7116.0	6915.1	6710.4	7426.9	7635.4	8818.3	8973.7	8363.3
35°	7734.0	7707.4	7950.1	7942.5	7616.5	7415.5	7961.5	8272.3	9368.0	9640.9	8818.3
37.5°	8537.7	8488.4	8765.2	8897.9	8606.0	8306.5	8727.3	9087.4	9879.8	10175.5	9284.6
40°	9364.2	9489.3	9860.8	10080.7	9769.8	9371.8	9663.7	9773.6	10221.0	10524.3	9603.0
42.5°	10410.6	10592.5	10971.6	11161.2	11134.7	10702.5	10615.3	10611.5	10467.4	10425.7	9838.1
45°	11415.2	11347.0	11930.8	12344.1	12677.7	12552.6	11532.7	11419.0	10857.9	10573.6	9898.7
47.5°	11855.0	11832.2	12230.3	12965.8	14103.2	14258.6	12867.2	12427.5	11517.6	11195.3	10228.6
50°	11286.3	11403.8	11798.1	12613.2	14357.2	15543.8	14505.0	13913.6	12287.2	11953.6	11009.6
52.5°	9428.6	9508.3	9883.6	10918.6	13492.8	16302.0	16074.6	15733.4	13701.3	13147.8	12370.6
54°	7752.9	7965.2	8170.0	9208.8	11953.6	15881.2	16935.2	16673.6	14622.5	14141.1	13227.4
55°	6752.1	6877.2	7025.0	8060.0	10888.2	15168.5	16836.6	16859.3	15240.5	14451.9	13803.7
57.5°	4932.3	5019.5	4867.9	5326.6	7476.2	12317.5	15399.7	16013.9	16074.6	14918.3	14156.2
60°	3768.4	3806.3	3635.7	3707.8	4648.0	8454.3	11911.9	12651.1	14501.2	13037.8	11991.5
62.5°	2923.0	2930.6	2926.8	3051.9	3203.5	4974.0	7449.7	8105.5	9997.3	9258.0	8143.4
65°	2153.4	2119.3	2179.9	2559.0	2733.4	3127.7	3923.9	4401.5	5432.7	4587.3	3279.4
67.5°	1395.2	1406.5	1467.2	1903.2	2342.9	2399.8	2415.0	2377.1	2380.9	1311.7	822.7
70°	837.8	856.8	837.8	1076.7	1675.7	1721.2	1573.3	1535.4	1198.0	310.9	307.1
72.5°	496.6	470.1	420.8	462.5	697.6	834.1	750.7	746.9	470.1	182.0	182.0
75°	208.5	189.6	155.4	140.3	185.8	178.2	178.2	159.2	125.1	121.3	113.7
77.5°	41.7	41.7	30.3	34.1	45.5	53.1	64.4	64.4	75.8	75.8	72.0
80°	0.0	3.8	11.4	22.7	34.1	49.3	56.9	56.9	64.4	64.4	53.1
82.5°	0.0	3.8	11.4	22.7	30.3	45.5	56.9	56.9	64.4	68.2	56.9
85°	0.0	3.8	11.4	19.0	30.3	37.9	37.9	34.1	26.5	22.7	15.2
87.5°	0.0	0.0	3.8	7.6	3.8	7.6	7.6	7.6	7.6	7.6	7.6
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°	7309.4	7309.4	7309.4	7309.4	7309.4	7309.4	7309.4	7309.4	7309.4	7309.4	7309.4
2.5°	7343.5	7339.7	7248.7	7100.9	7066.7	6941.6	6926.5	6850.6	6892.3	6752.1	6736.9
5°	7282.8	7237.3	7127.4	7032.6	6755.9	6558.7	6403.3	6213.7	6103.8	6122.7	6050.7
7.5°	7370.0	7252.5	7059.2	6729.3	6391.9	6046.9	5861.1	5474.5	5334.2	5125.7	5095.3
10°	7279.0	7191.9	6892.3	6346.4	5880.1	5383.5	4947.5	4519.1	4193.0	4052.8	4022.4
12.5°	7271.5	7119.8	6619.4	6012.8	5338.0	4625.2	3992.1	3457.5	3135.3	2953.3	2911.6
15°	7153.9	6972.0	6312.3	5497.2	4564.6	3677.4	2987.4	2471.8	2225.4	2119.3	2149.6
17.5°	7165.3	6892.3	6005.2	4951.3	3802.5	2699.3	2039.6	1774.3	1709.8	1736.4	1736.4
20°	7153.9	6714.2	5633.7	4321.9	2911.6	1872.8	1497.5	1402.7	1444.4	1527.8	1508.9
22.5°	7093.3	6630.8	5292.5	3658.5	2142.0	1387.6	1201.8	1205.6	1270.0	1372.4	1395.2
25°	7138.8	6445.0	4860.3	2987.4	1562.0	1107.0	1042.6	1069.1	1137.4	1213.2	1228.3
27.5°	7104.7	6312.3	4409.1	2320.2	1141.1	951.6	947.8	978.1	1008.5	1065.3	1065.3
30°	7142.6	6191.0	3965.6	1725.0	940.2	872.0	856.8	879.6	909.9	921.3	917.5
32.5°	7282.8	6100.0	3453.8	1289.0	830.3	796.1	796.1	796.1	792.4	807.5	811.3
35°	7589.9	6115.2	3002.6	997.1	758.2	731.7	720.3	705.2	697.6	705.2	708.9
37.5°	7923.5	6107.6	2536.3	849.2	705.2	682.4	655.9	633.1	629.3	636.9	625.5
40°	8071.4	6179.6	2104.1	762.0	655.9	629.3	587.6	568.7	572.5	580.0	572.5
42.5°	8272.3	6202.4	1823.6	693.8	610.4	568.7	542.1	519.4	515.6	527.0	523.2
45°	8268.5	6073.5	1527.8	655.9	568.7	523.2	489.1	470.1	470.1	477.7	481.5
47.5°	8511.2	6054.5	1311.7	621.8	538.3	492.9	451.1	436.0	432.2	432.2	424.6
50°	9076.1	6319.9	1144.9	583.8	500.4	458.7	424.6	405.7	390.5	382.9	379.1
52.5°	10179.3	7146.4	1016.0	538.3	458.7	424.6	394.3	379.1	360.2	341.2	337.4
54°	11248.4	7999.4	1008.5	500.4	424.6	401.9	375.3	367.7	345.0	318.5	310.9
55°	11729.9	8496.0	1035.0	470.1	401.9	386.7	364.0	356.4	333.6	303.3	299.5
57.5°	12128.0	8689.4	1019.8	390.5	364.0	360.2	341.2	329.8	303.3	261.6	254.0
60°	9762.3	6570.1	731.7	345.0	333.6	326.0	310.9	303.3	269.2	223.7	219.9
62.5°	6168.2	3779.8	466.3	303.3	291.9	280.5	261.6	254.0	223.7	178.2	166.8
65°	2627.3	1565.8	314.7	269.2	250.2	231.3	216.1	204.7	178.2	132.7	128.9
67.5°	682.4	557.3	261.6	235.1	208.5	182.0	170.6	151.6	121.3	91.0	87.2
70°	307.1	280.5	219.9	197.1	166.8	140.3	125.1	106.2	79.6	60.7	56.9
72.5°	182.0	178.2	166.8	147.9	125.1	106.2	91.0	72.0	53.1	34.1	34.1
75°	113.7	109.9	113.7	102.4	87.2	79.6	68.2	49.3	30.3	15.2	15.2
77.5°	68.2	68.2	68.2	64.4	60.7	60.7	49.3	30.3	15.2	3.8	3.8
80°	53.1	53.1	56.9	53.1	53.1	53.1	41.7	22.7	7.6	0.0	0.0
82.5°	53.1	56.9	64.4	60.7	53.1	45.5	37.9	22.7	7.6	0.0	0.0
85°	15.2	11.4	19.0	26.5	37.9	34.1	26.5	19.0	7.6	0.0	0.0
87.5°	7.6	7.6	7.6	7.6	3.8	3.8	3.8	3.8	3.8	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)