

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: P534109

Luminaire Tested: **GALN-SA9C-750-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534109
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-750-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37273 lumens
Efficiency: N/A
Efficacy: 77.5 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

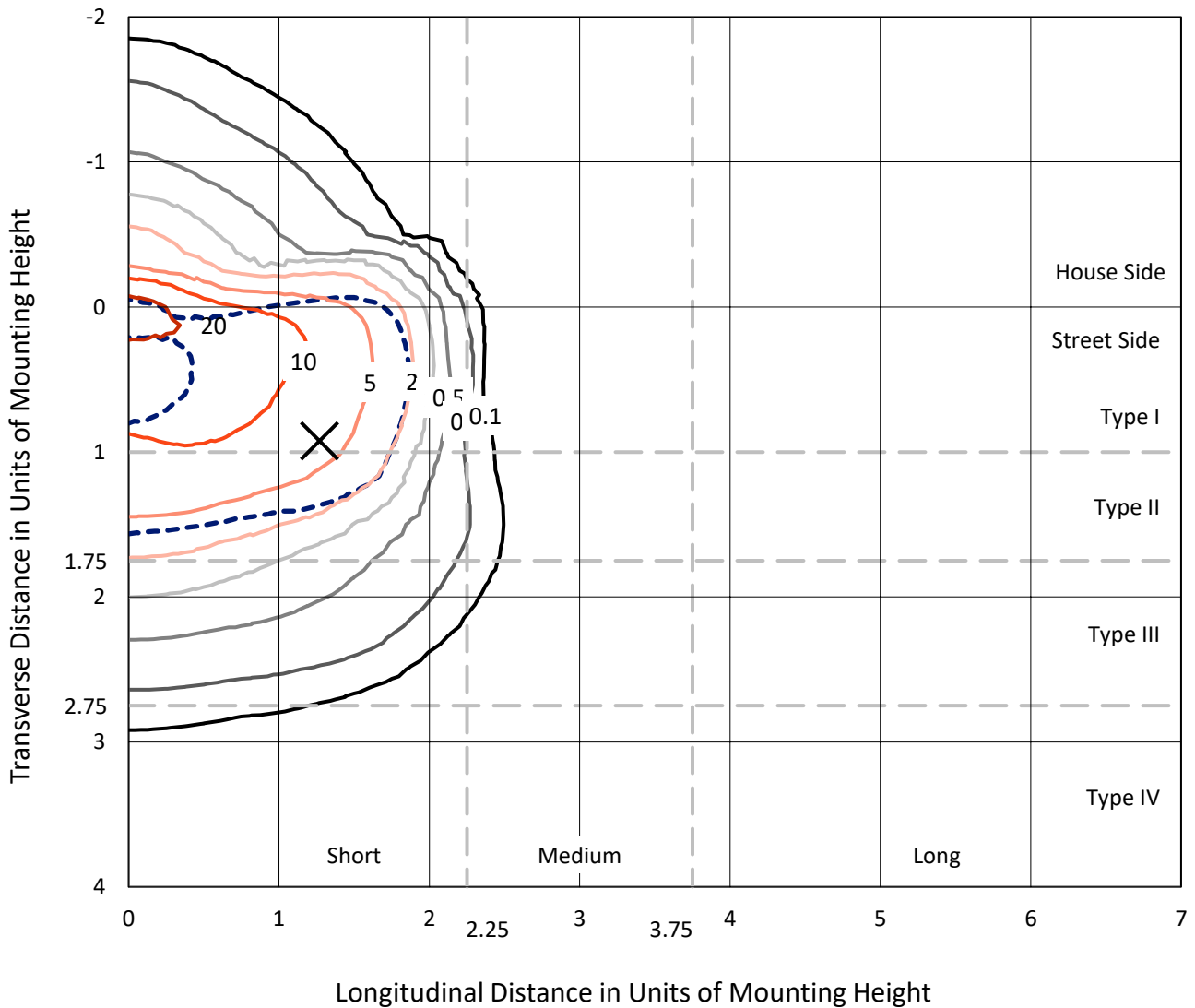
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P534109
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Iso-Footcandle Lines of Horizontal Illumination

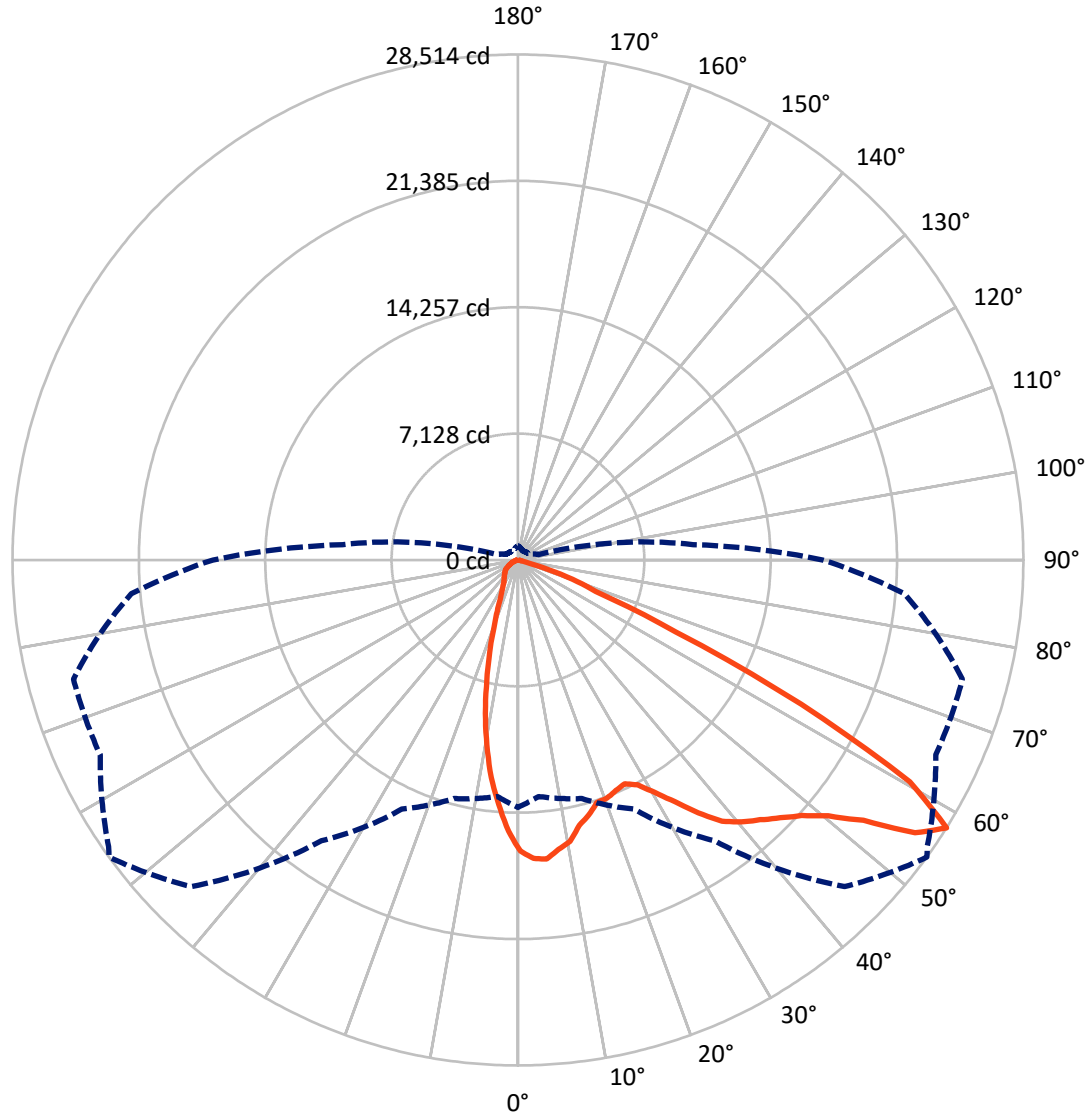
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.3 fc
 Type II - Short - N/A

REPORT NUMBER: P534109
CATALOG NUMBER: GALN-SA9C-750-U-SL3-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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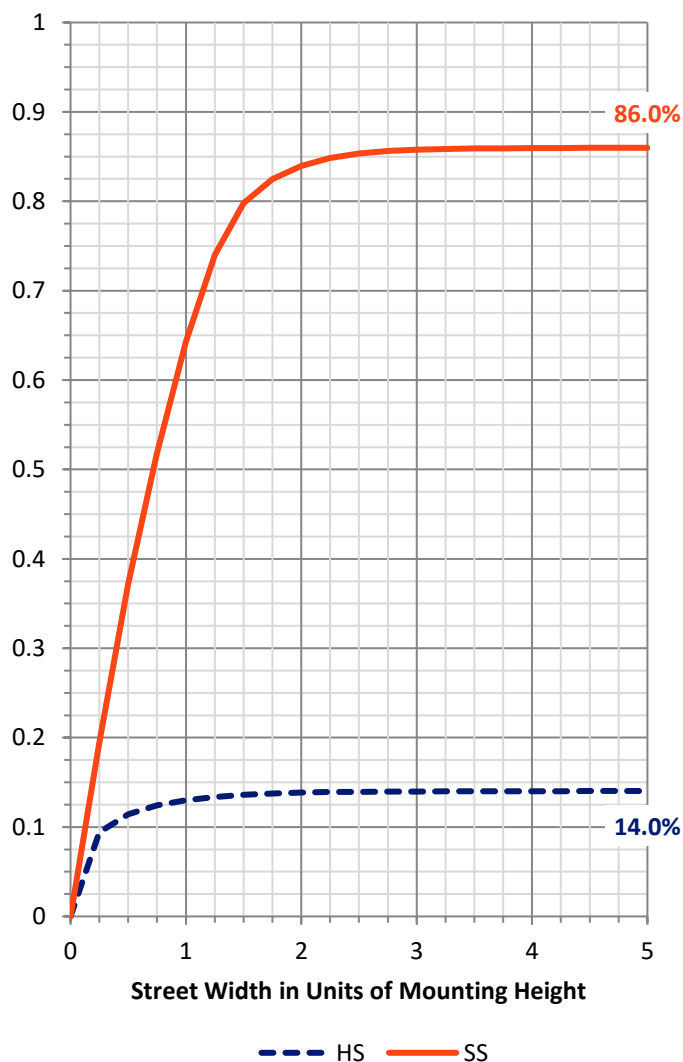
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5267.3	0.0	5267.3
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	32005.7	0.0	32005.7
	% Fixture	85.9	0.0	85.9
Total	Lumens	37273.0	0.0	37273.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1374.0	3.7
10°-20°	2933.5	7.9
20°-30°	3887.4	10.4
30°-40°	5649.5	15.2
40°-50°	8377.4	22.5
50°-60°	10475.6	28.1
60°-70°	4132.2	11.1
70°-80°	411.4	1.1
80°-90°	32.0	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°	37273.0	100.0
0°-180°	37273.0	100.0

Coefficient of Utilization

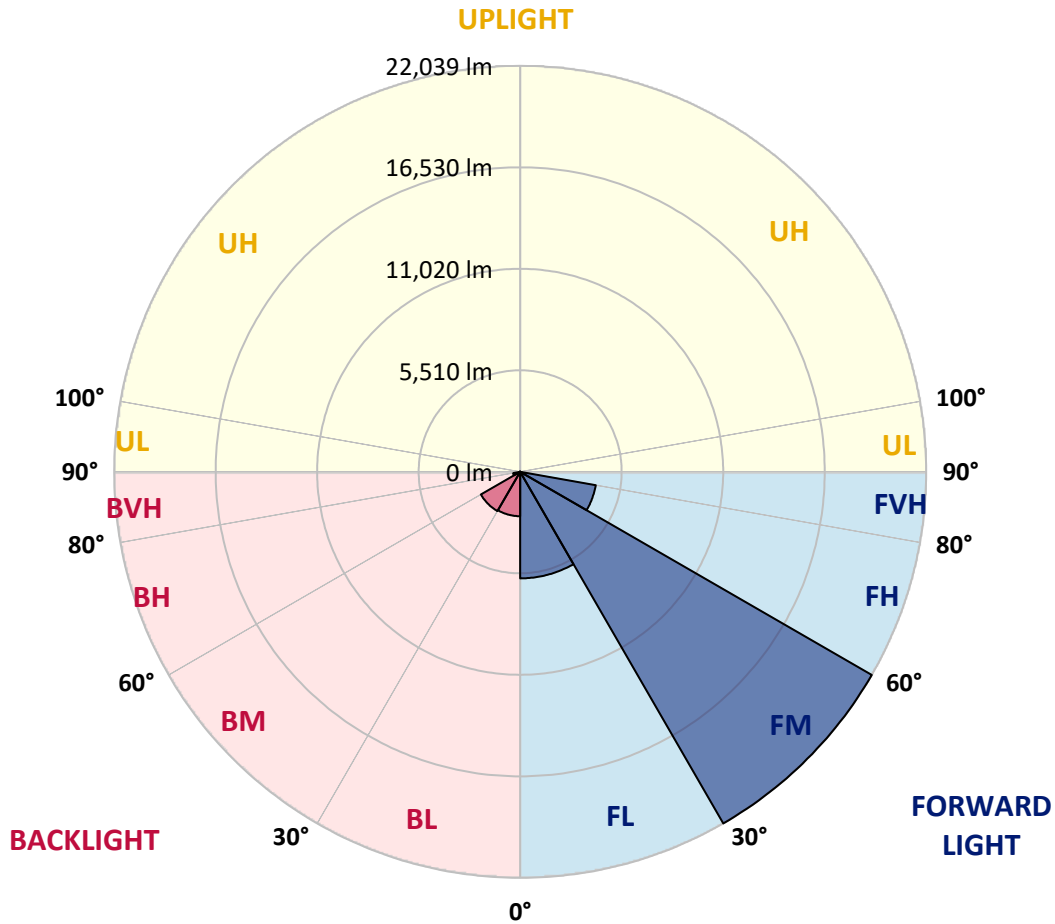


REPORT NUMBER: P534109
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5785.9	15.5			
FM (30°-60°)	22039.4	59.1			
FH (60°-80°)	4165.9	11.2			G2/5000
FVH (80°-90°)	14.5	0.0			G1/100
BL (0°-30°)	2409.0	6.5	B3/2500		
BM (30°-60°)	2463.1	6.6	B2/2500		
BH (60°-80°)	377.7	1.0	B1/500		G1/500
BVH (80°-90°)	17.5	0.0			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°	54°	55°	65°	75°	85°
0°	16419.3	16419.3	16419.3	16419.3	16419.3	16419.3	16419.3	16419.3	16419.3	16419.3	16419.3
2.5°	17375.7	17195.5	17209.4	17147.0	17063.8	17126.2	16855.9	16918.3	16911.4	16544.0	16301.4
5°	16939.1	17133.1	16932.1	17098.5	16939.1	17112.3	16946.0	16821.2	16620.3	16349.9	15899.4
7.5°	16197.5	16010.3	16065.8	16273.7	16308.4	16696.5	16488.6	16648.0	16564.8	16031.1	15414.3
10°	14707.3	14665.7	14943.0	15220.2	15559.8	15975.7	16135.1	16045.0	15982.6	15781.6	14956.8
12.5°	13563.7	13681.6	13674.6	14132.1	14707.3	14943.0	15358.8	15345.0	15691.5	15317.2	14527.1
15°	12475.6	12538.0	12829.1	13113.2	13750.9	14423.2	14936.0	15005.4	15421.2	15157.8	14194.4
17.5°	11810.2	11720.1	11948.8	12288.5	12940.0	13820.2	14388.5	14554.9	15123.2	15067.7	13813.2
20°	11151.8	11151.8	11338.9	11740.9	12337.0	13328.1	14340.0	14291.5	15123.2	14963.8	13404.3
22.5°	10930.0	11040.9	11089.4	11394.4	12101.3	12953.8	14132.1	14222.2	15241.0	14915.3	13224.1
25°	11235.0	11089.4	11103.3	11345.9	12011.2	12773.6	13979.6	14180.6	15455.9	15157.8	13078.6
27.5°	11283.5	11429.0	11470.6	11637.0	12080.5	12829.1	14360.8	14769.7	15989.5	15726.2	13120.2
30°	11706.3	11851.8	11844.9	12129.0	12434.0	13279.6	15213.3	15296.5	17091.6	16440.1	13376.6
32.5°	12219.1	12371.6	12420.1	12752.8	12995.4	14104.3	16252.9	16467.8	18152.0	17562.9	14048.9
35°	12856.8	12801.3	13023.1	13355.8	13875.6	15310.3	17521.3	17881.7	19295.6	19018.3	14742.0
37.5°	13653.8	13584.5	13799.4	14340.0	15046.9	16738.1	18692.6	18928.2	20127.3	20369.9	16024.2
40°	14215.2	14243.0	14894.5	15622.2	16370.7	18096.5	19434.2	19662.9	20709.5	21631.3	16994.5
42.5°	15150.9	15324.2	16107.4	16994.5	17777.7	19115.4	20037.2	20259.0	20979.8	22643.2	18304.5
45°	16509.4	16433.1	17299.5	18290.6	19157.0	20175.8	20751.1	20674.8	21139.2	23648.2	19129.2
47.5°	18255.9	18269.8	18845.1	19690.6	20591.6	21097.6	21548.1	21277.8	21471.9	24708.6	20231.2
50°	19448.1	19552.0	20016.4	20882.7	21333.3	22109.5	22684.8	22518.4	22456.1	25346.2	20924.3
52.5°	19753.0	20064.9	20314.4	21395.6	22449.1	23675.9	24410.6	24764.0	23655.1	25561.1	21804.6
55°	17452.0	17729.2	18609.4	20092.6	22871.9	26157.1	27169.1	27176.0	25221.5	26517.6	22421.4
57.5°	13951.9	13390.5	13931.1	15504.4	19337.2	26053.2	28513.6	28187.9	26004.7	25956.2	21887.7
60°	9647.8	9509.2	9543.8	10167.6	13383.5	20723.3	25408.6	25831.4	23946.2	22497.6	17327.2
62.5°	7644.8	7526.9	7374.5	7305.1	8310.1	12912.2	17923.3	18519.3	16745.0	14589.5	10271.6
65°	5988.3	5919.0	5939.8	6217.0	6210.1	7325.9	9800.3	9557.7	7651.7	5655.6	3229.8
67.5°	4040.7	4144.7	4227.8	5066.5	5496.2	5101.1	4733.8	4595.2	2488.2	1046.6	713.9
70°	2273.3	2287.2	2377.3	3167.4	4172.4	3957.5	3264.4	3264.4	1240.6	381.2	408.9
72.5°	1240.6	1199.0	1115.9	1365.4	1857.5	1885.2	1455.5	1268.4	367.3	249.5	228.7
75°	603.0	596.1	512.9	422.8	402.0	332.7	256.4	235.6	166.3	159.4	138.6
77.5°	124.8	117.8	62.4	62.4	69.3	76.2	97.0	97.0	117.8	117.8	97.0
80°	0.0	0.0	6.9	27.7	48.5	69.3	83.2	83.2	97.0	97.0	76.2
82.5°	0.0	0.0	6.9	20.8	41.6	62.4	76.2	83.2	97.0	104.0	83.2
85°	0.0	0.0	0.0	13.9	34.7	48.5	41.6	41.6	34.7	27.7	13.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	16419.3	16419.3	16419.3	16419.3	16419.3	16419.3	16419.3	16419.3	16419.3	16419.3	16419.3
2.5°	16176.7	16162.8	15844.0	15663.8	15338.0	15053.9	14825.2	14658.8	14658.8	14554.9	14457.8
5°	15719.2	15601.4	14922.2	14485.5	13868.7	13411.3	13099.4	12856.8	12475.6	12579.5	12170.6
7.5°	15150.9	14852.9	13951.9	13286.5	12434.0	11782.5	11117.1	10528.0	9959.7	9703.2	9841.9
10°	14541.0	14021.2	12808.3	11754.8	10694.4	9502.2	8726.0	7783.4	7201.2	7166.5	7014.1
12.5°	13896.4	13307.3	11831.0	10375.5	8982.4	7547.7	6362.5	5482.3	5087.3	4650.6	4733.8
15°	13411.3	12538.0	10742.9	8989.4	7138.8	5690.3	4498.1	3818.9	3444.6	3340.7	3306.0
17.5°	12884.5	11948.8	9633.9	7513.1	5600.2	4096.2	3236.7	2911.0	2765.4	2765.4	2744.6
20°	12337.0	11283.5	8531.9	6140.8	4200.1	3056.5	2592.1	2488.2	2481.3	2474.3	2474.3
22.5°	11976.6	10521.1	7533.9	4879.3	3167.4	2446.6	2252.5	2211.0	2238.7	2321.8	2321.8
25°	11595.4	9786.4	6431.9	3763.5	2453.5	2100.1	1989.2	2016.9	2086.2	2162.4	2134.7
27.5°	11207.2	9308.2	5392.2	2952.6	2010.0	1836.7	1795.1	1857.5	1933.7	2003.0	1982.2
30°	11117.1	8795.3	4408.0	2238.7	1725.8	1601.0	1628.8	1684.2	1760.4	1788.2	1815.9
32.5°	11255.8	8393.3	3611.0	1836.7	1504.0	1469.3	1469.3	1497.1	1545.6	1608.0	1587.2
35°	11650.8	8164.6	2855.5	1594.1	1379.2	1344.6	1337.7	1365.4	1393.1	1413.9	1393.1
37.5°	12253.8	7984.4	2335.7	1413.9	1296.1	1240.6	1226.8	1219.8	1247.6	1254.5	1268.4
40°	13023.1	8081.4	1982.2	1303.0	1212.9	1150.5	1108.9	1108.9	1108.9	1129.7	1136.7
42.5°	13854.8	8213.1	1711.9	1240.6	1136.7	1060.4	1018.8	1005.0	1018.8	1046.6	1039.6
45°	14728.1	8469.5	1538.7	1143.6	1067.4	970.3	914.9	901.0	935.7	991.1	984.2
47.5°	15546.0	8836.9	1407.0	1081.2	998.0	907.9	838.6	824.8	887.2	963.4	970.3
50°	16363.8	9474.5	1358.5	1032.7	949.5	845.6	783.2	769.3	838.6	935.7	956.5
52.5°	17306.4	10160.7	1323.8	970.3	894.1	797.1	727.7	713.9	790.1	914.9	921.8
55°	17923.3	10742.9	1296.1	859.4	790.1	720.8	665.4	658.4	741.6	852.5	880.2
57.5°	17202.4	9932.0	1199.0	748.5	672.3	637.6	589.1	589.1	658.4	762.4	783.2
60°	13043.9	6535.8	852.5	603.0	568.3	547.5	526.7	526.7	582.2	658.4	665.4
62.5°	7637.8	3520.9	547.5	485.2	485.2	464.4	429.7	429.7	485.2	526.7	533.7
65°	2266.4	1129.7	443.6	415.9	408.9	374.3	339.6	332.7	374.3	395.1	388.1
67.5°	651.5	519.8	367.3	346.5	339.6	284.2	263.4	256.4	263.4	249.5	242.6
70°	388.1	353.5	284.2	291.1	256.4	207.9	187.1	180.2	166.3	145.5	131.7
72.5°	214.9	214.9	207.9	221.8	180.2	138.6	117.8	97.0	76.2	62.4	55.4
75°	131.7	138.6	145.5	152.5	117.8	90.1	76.2	48.5	27.7	13.9	13.9
77.5°	90.1	97.0	104.0	110.9	97.0	83.2	62.4	34.7	6.9	0.0	0.0
80°	69.3	76.2	90.1	97.0	104.0	110.9	83.2	34.7	6.9	0.0	0.0
82.5°	76.2	83.2	104.0	97.0	97.0	97.0	76.2	34.7	6.9	0.0	0.0
85°	13.9	20.8	34.7	34.7	48.5	62.4	48.5	13.9	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)