

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: P533595

Luminaire Tested: **GALN-SA9A-735-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533595
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-735-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22782 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

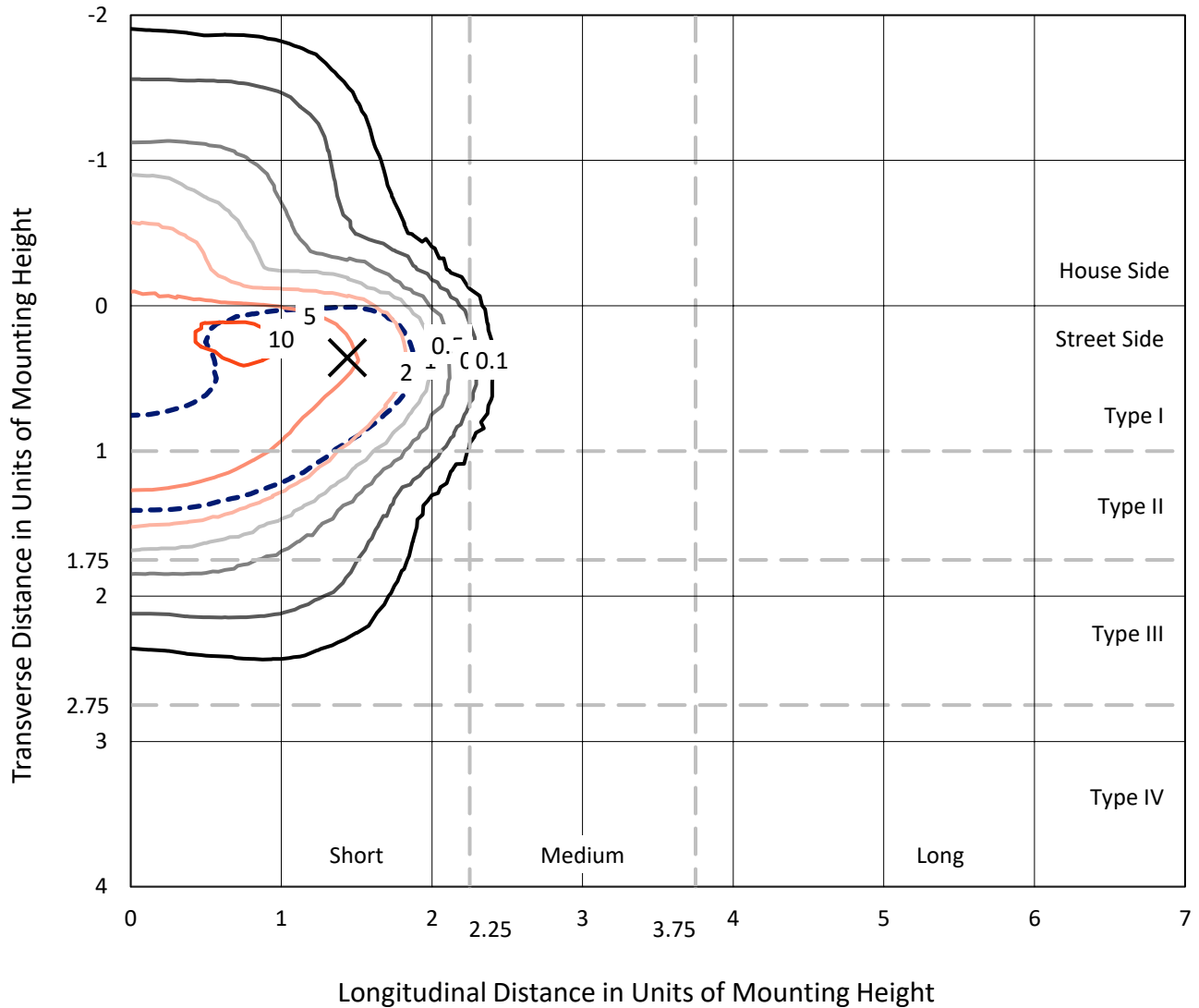
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

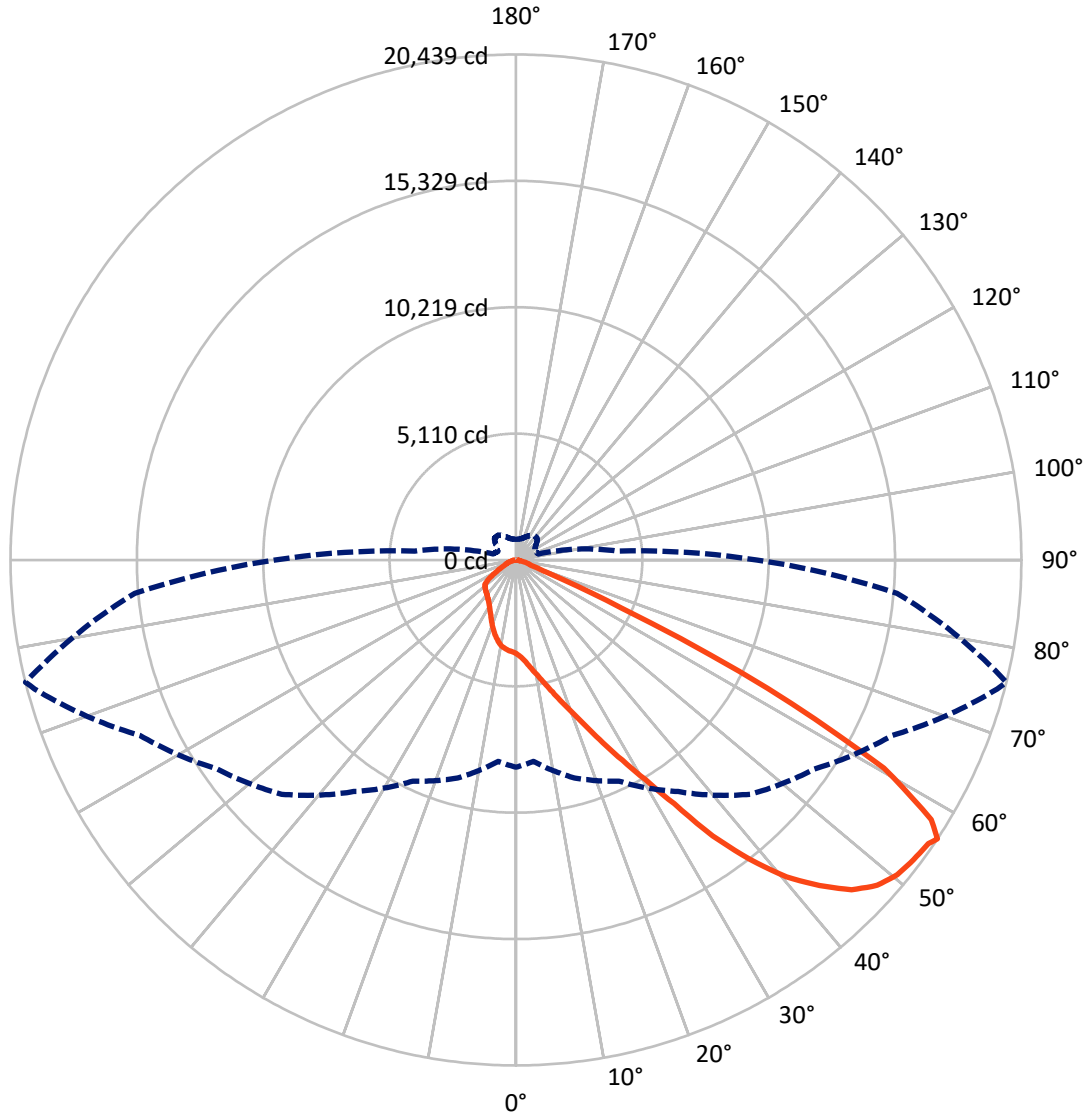
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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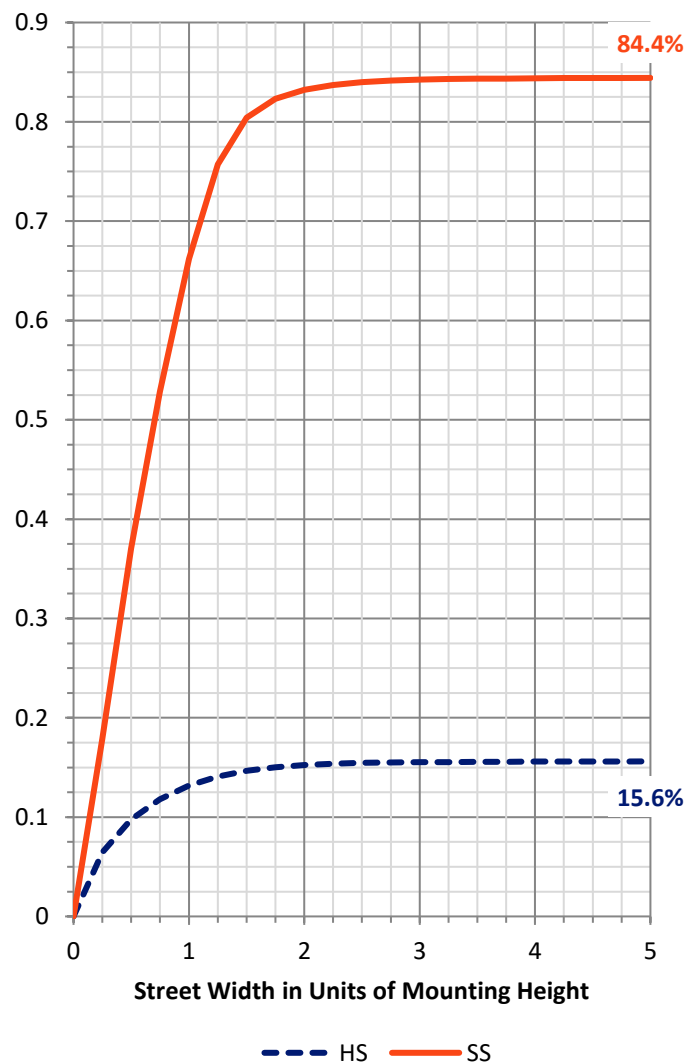
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3578.9	0.0	3578.9
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	19203.1	0.0	19203.1
	% Fixture	84.3	0.0	84.3
Total	Lumens	22782.0	0.0	22782.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.0	1.7
10°-20°	1227.2	5.4
20°-30°	2225.3	9.8
30°-40°	3837.6	16.8
40°-50°	6234.3	27.4
50°-60°	6571.2	28.8
60°-70°	2007.8	8.8
70°-80°	257.4	1.1
80°-90°	39.1	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°	22782.0	100.0
0°-180°	22782.0	100.0

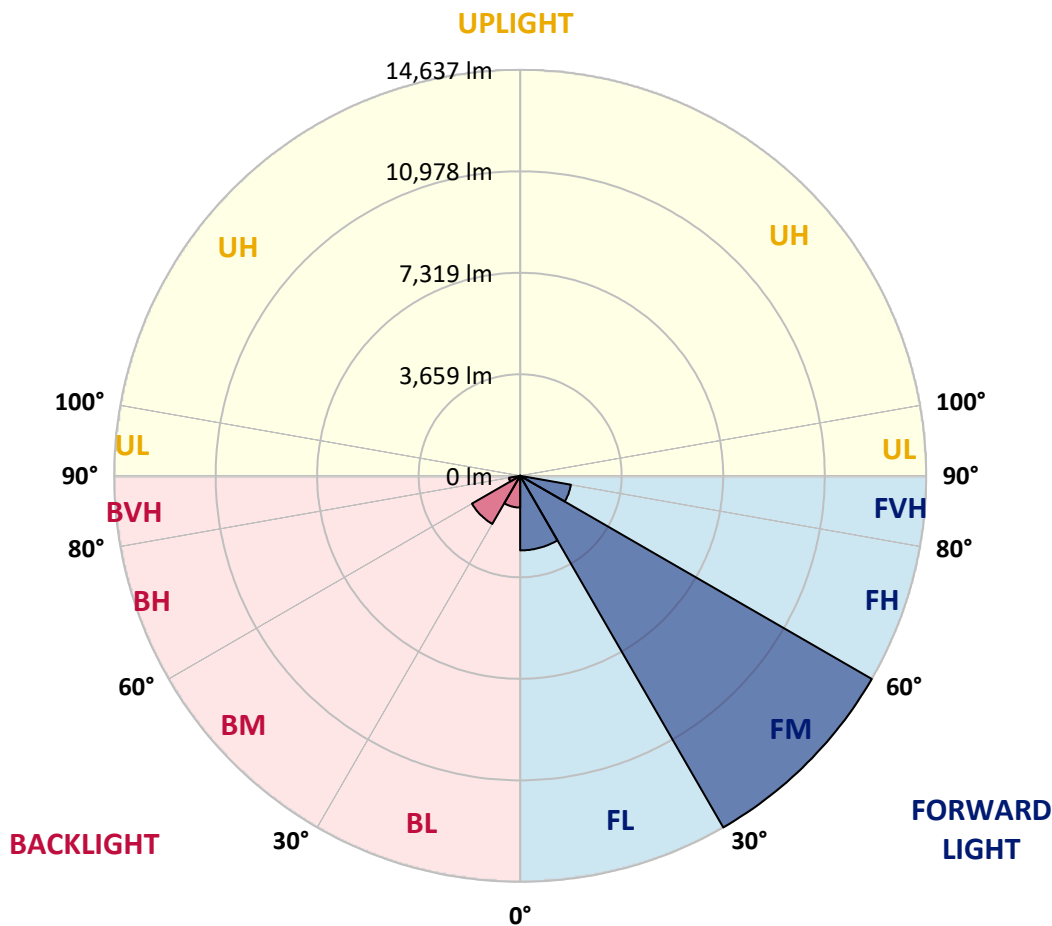


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2689.6	11.8			
FM (30°-60°)	14637.4	64.2			
FH (60°-80°)	1856.9	8.2			G2/5000
FVH (80°-90°)	19.2	0.1			G1/100
BL (0°-30°)	1144.9	5.0	B3/2500		
BM (30°-60°)	2005.8	8.8	B2/2500		
BH (60°-80°)	408.3	1.8	B1/500		G1/500
BVH (80°-90°)	20.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3792.1	3792.1	3792.1	3792.1	3792.1	3792.1	3792.1	3792.1	3792.1	3792.1	3792.1
2.5°	4367.4	4266.6	4270.8	4262.4	4249.8	4203.6	4065.1	4044.1	3951.7	3926.5	3842.5
5°	4892.4	4804.2	4854.6	4779.0	4707.6	4665.6	4438.8	4333.8	4186.8	4132.3	4014.7
7.5°	5219.9	5177.9	5161.1	5165.3	5098.1	4993.1	4892.4	4661.4	4464.0	4422.0	4174.2
10°	5379.5	5354.3	5379.5	5366.9	5396.3	5408.9	5232.5	5093.9	4804.2	4732.8	4346.4
12.5°	5417.3	5467.7	5488.7	5543.3	5614.7	5736.4	5723.8	5534.9	5148.5	5102.3	4611.0
15°	5509.7	5551.7	5530.7	5618.9	5753.2	5959.0	6068.2	6038.8	5623.1	5539.1	4917.5
17.5°	5593.7	5518.1	5589.5	5765.8	5900.2	6215.2	6479.7	6601.5	6139.6	6043.0	5198.9
20°	5707.0	5686.0	5673.4	5761.6	6001.0	6421.0	6945.9	7168.5	6719.1	6618.3	5602.1
22.5°	6051.4	6055.6	6047.2	5917.0	6089.2	6563.7	7353.2	7903.4	7412.0	7328.0	6059.8
25°	6504.9	6450.3	6408.4	6303.4	6282.4	6693.9	7764.8	8802.0	8243.5	8184.7	6555.3
27.5°	6983.7	6983.7	6857.7	6761.1	6626.7	7017.3	8142.7	9675.5	9247.2	9167.4	6987.9
30°	7504.4	7533.8	7517.0	7311.2	7227.2	7370.0	8529.1	10792.6	10397.8	10297.0	7701.8
32.5°	8272.9	8209.9	8281.3	8109.1	7861.4	7987.3	9138.0	11792.0	11892.8	11750.0	8638.3
35°	9289.2	9251.4	9205.2	8923.8	8629.9	8730.6	9998.9	13022.5	13770.0	13698.6	9583.1
37.5°	10200.5	10179.5	10141.7	9948.5	9608.3	9730.1	10977.3	14303.3	15600.9	15365.8	10918.6
40°	11157.9	11271.3	11149.5	10977.3	10666.6	10935.4	12128.0	15063.4	17142.1	16856.6	11939.0
42.5°	12455.6	12367.4	12422.0	12107.0	11939.0	12233.0	13282.8	15823.5	18339.0	17998.8	13022.5
45°	13837.2	13841.4	13694.4	13593.6	13156.9	13476.0	13992.5	16243.5	19292.2	19027.7	13841.4
47.5°	14723.3	14719.1	14878.6	15038.2	14588.9	14273.9	14475.5	16642.4	19783.6	19661.8	14139.5
50°	14584.7	14626.7	14832.4	15428.8	15663.9	15239.8	14929.0	16524.8	20006.2	19993.6	14395.7
52.5°	12686.5	12825.1	13169.5	14030.3	15214.6	15739.5	15403.6	16743.2	20115.3	20136.3	14777.8
55°	9658.7	9734.3	10389.4	11435.1	12745.3	14542.7	15214.6	16915.4	20199.3	20237.1	15239.8
56°	8377.9	8176.3	9121.2	9864.5	11430.9	13396.2	14735.8	16781.0	20148.9	20438.7	15470.8
57.5°	6324.4	6190.0	6954.3	7882.4	9390.0	11464.5	13249.2	16146.9	19808.8	19804.6	15139.0
60°	3846.7	3712.3	4300.2	4846.2	5690.2	7059.3	8953.2	12858.7	16747.4	17100.1	12258.2
62.5°	2288.7	2372.7	2952.2	3284.0	3556.9	3699.7	4632.0	7643.0	11174.7	11426.7	7605.2
65°	1524.4	1553.8	1990.5	2536.5	2658.2	2116.5	1885.6	3095.0	4846.2	4690.8	3137.0
67.5°	940.7	1007.9	1335.4	1906.5	2112.3	1545.4	894.5	1154.8	1335.4	1335.4	907.1
70°	571.1	604.7	890.3	1297.6	1448.8	995.3	650.9	650.9	642.5	629.9	541.7
72.5°	273.0	294.0	453.5	667.7	680.3	524.9	503.9	550.1	537.5	533.3	449.3
75°	117.6	126.0	159.6	210.0	239.4	222.6	306.6	394.7	407.3	394.7	323.4
77.5°	37.8	42.0	58.8	75.6	79.8	96.6	130.2	163.8	189.0	176.4	159.6
80°	4.2	8.4	16.8	37.8	58.8	75.6	96.6	109.2	121.8	121.8	113.4
82.5°	4.2	4.2	16.8	33.6	54.6	71.4	92.4	105.0	121.8	126.0	117.6
85°	0.0	4.2	12.6	29.4	46.2	46.2	42.0	42.0	29.4	29.4	29.4
87.5°	0.0	0.0	4.2	4.2	4.2	8.4	8.4	8.4	8.4	8.4	8.4
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°	3792.1	3792.1	3792.1	3792.1	3792.1	3792.1	3792.1	3792.1	3792.1	3792.1	3792.1
2.5°	3825.7	3817.3	3703.9	3632.5	3594.7	3519.1	3472.9	3439.3	3414.1	3384.8	3389.0
5°	3876.1	3846.7	3657.7	3527.5	3372.2	3288.2	3216.8	3158.0	3120.2	3111.8	3095.0
7.5°	4018.9	3863.5	3577.9	3342.8	3145.4	3061.4	2998.4	2960.6	2977.4	2939.6	2969.0
10°	4128.1	3897.1	3481.3	3141.2	2943.8	2880.8	2847.2	2876.6	2918.6	2901.8	2880.8
12.5°	4262.4	3930.7	3326.0	2948.0	2763.2	2717.0	2775.8	2830.4	2914.4	2948.0	2906.0
15°	4413.6	3968.5	3128.6	2725.4	2607.9	2645.6	2746.4	2843.0	2927.0	2969.0	2994.2
17.5°	4598.4	3955.9	2935.4	2549.1	2460.9	2570.1	2691.8	2780.0	2906.0	2969.0	2952.2
20°	4770.6	3913.9	2721.2	2372.7	2376.9	2477.7	2578.5	2721.2	2788.4	2872.4	2843.0
22.5°	4934.3	3838.3	2498.7	2250.9	2250.9	2406.3	2456.7	2549.1	2607.9	2649.8	2645.6
25°	5165.3	3695.5	2313.9	2133.3	2183.7	2284.5	2326.5	2355.9	2330.7	2364.3	2368.5
27.5°	5329.1	3548.5	2162.7	2028.3	2120.7	2196.3	2183.7	2166.9	2108.1	2061.9	2091.3
30°	5505.5	3376.4	2032.5	1956.9	2007.3	2074.5	2024.1	1973.7	1881.4	1805.8	1810.0
32.5°	5757.4	3296.6	1919.1	1873.0	1940.1	1948.5	1893.9	1818.4	1726.0	1654.6	1650.4
35°	6227.8	3246.2	1822.6	1818.4	1831.0	1835.2	1780.6	1688.2	1650.4	1591.6	1612.6
37.5°	6698.1	3221.0	1755.4	1738.6	1734.4	1738.6	1675.6	1587.4	1658.8	1654.6	1663.0
40°	7298.6	3334.4	1658.8	1637.8	1642.0	1642.0	1562.2	1537.0	1663.0	1675.6	1679.8
42.5°	7907.6	3477.1	1595.8	1528.6	1545.4	1545.4	1503.4	1474.0	1562.2	1478.2	1465.6
45°	8436.7	3687.1	1528.6	1419.4	1461.4	1482.4	1469.8	1419.4	1364.8	1222.0	1222.0
47.5°	8608.9	3871.9	1448.8	1314.4	1348.0	1440.4	1402.6	1297.6	1201.0	1083.5	1075.1
50°	8911.2	4073.5	1385.8	1192.6	1264.0	1377.4	1339.6	1234.6	1125.5	1041.5	1045.7
52.5°	9222.0	4304.4	1268.2	1049.9	1138.0	1327.0	1327.0	1209.4	1041.5	982.7	974.3
55°	9688.1	4296.0	1058.3	860.9	1016.3	1251.4	1272.4	1083.5	932.3	886.1	886.1
56°	9755.3	4102.9	953.3	806.3	961.7	1230.4	1234.6	1049.9	890.3	839.9	839.9
57.5°	9251.4	3703.9	835.7	739.1	894.5	1192.6	1196.8	1020.5	856.7	785.3	776.9
60°	7118.1	2507.1	697.1	659.3	810.5	1075.1	1096.1	928.1	751.7	697.1	692.9
62.5°	4018.9	1390.0	613.1	596.3	697.1	915.5	978.5	810.5	638.3	608.9	617.3
65°	1835.2	764.3	516.5	482.9	562.7	705.5	789.5	667.7	524.9	491.3	491.3
67.5°	671.9	520.7	440.9	382.1	394.7	457.7	512.3	432.5	348.6	298.2	310.8
70°	478.7	436.7	386.3	331.8	306.6	298.2	294.0	243.6	172.2	134.4	142.8
72.5°	386.3	361.2	323.4	281.4	239.4	201.6	172.2	126.0	79.8	54.6	50.4
75°	277.2	264.6	235.2	201.6	168.0	142.8	117.6	79.8	42.0	21.0	21.0
77.5°	142.8	142.8	138.6	126.0	105.0	84.0	67.2	46.2	25.2	8.4	8.4
80°	109.2	117.6	121.8	109.2	96.6	75.6	54.6	33.6	16.8	4.2	4.2
82.5°	105.0	121.8	130.2	113.4	96.6	71.4	54.6	33.6	16.8	4.2	4.2
85°	25.2	25.2	37.8	42.0	54.6	58.8	46.2	29.4	12.6	4.2	4.2
87.5°	8.4	8.4	8.4	8.4	8.4	8.4	4.2	4.2	4.2	4.2	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)