

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: P531671

Luminaire Tested: **GALN-SA7A-727-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531671
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-SA7A-727-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 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: 15714 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

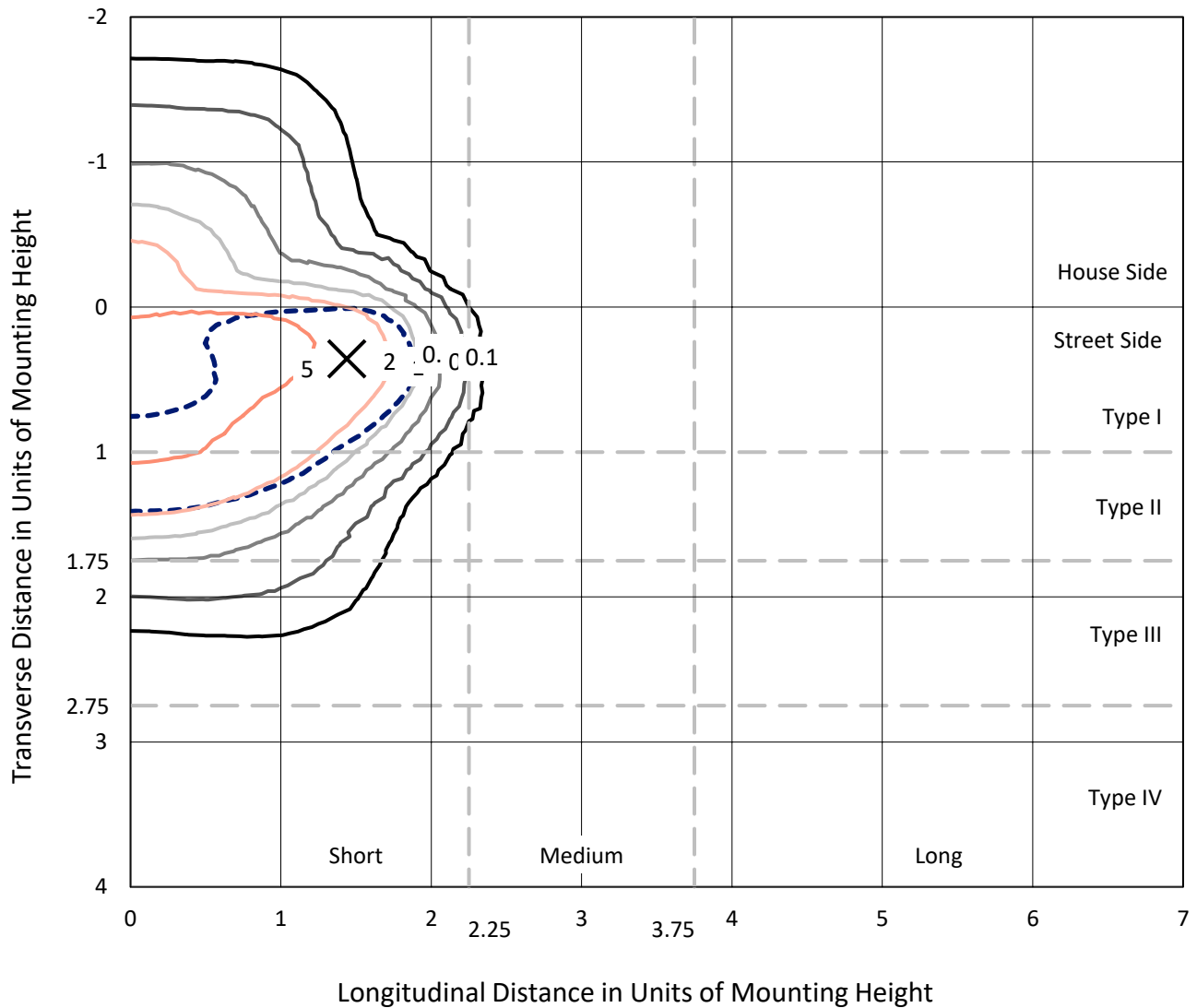
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

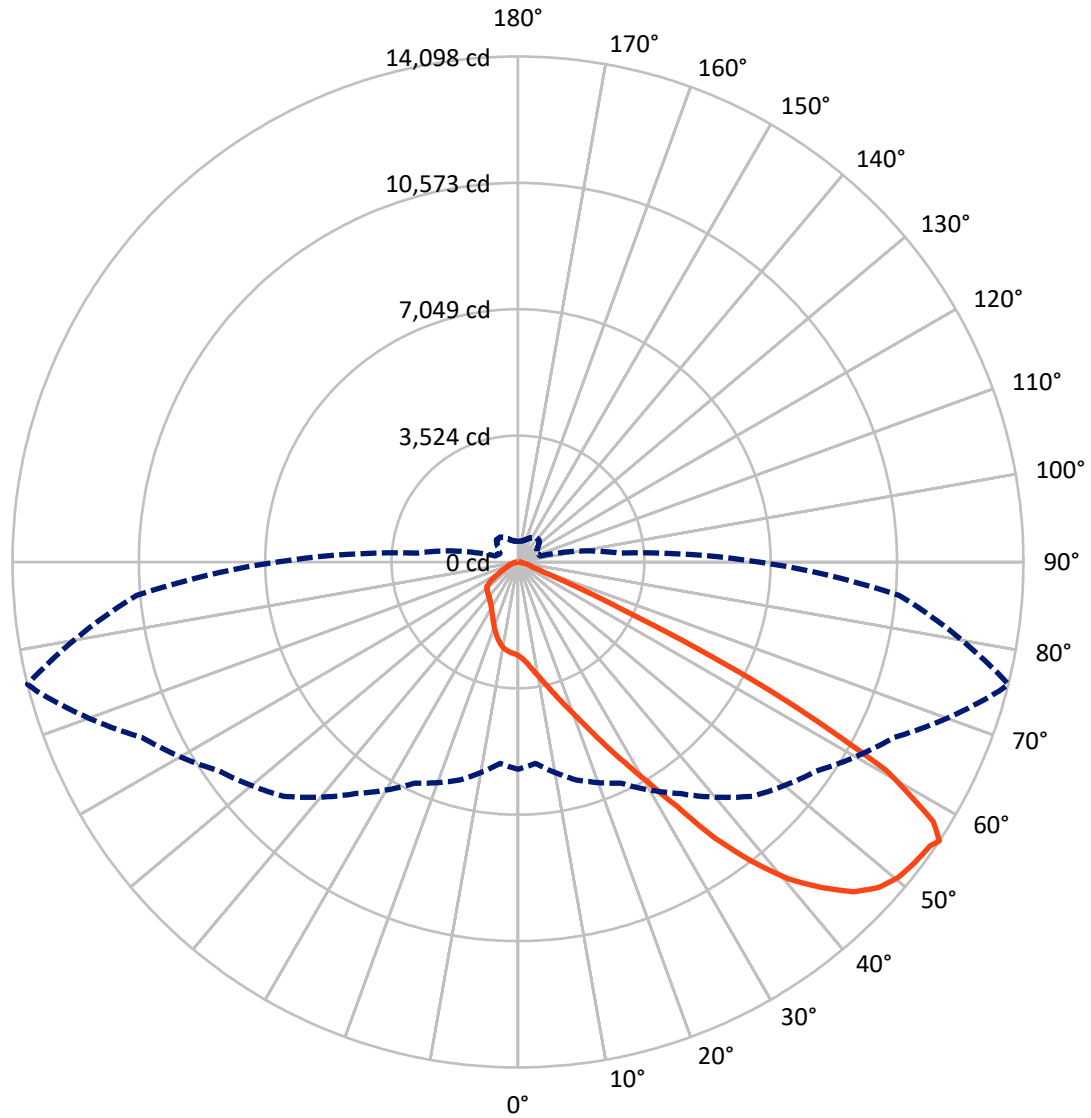
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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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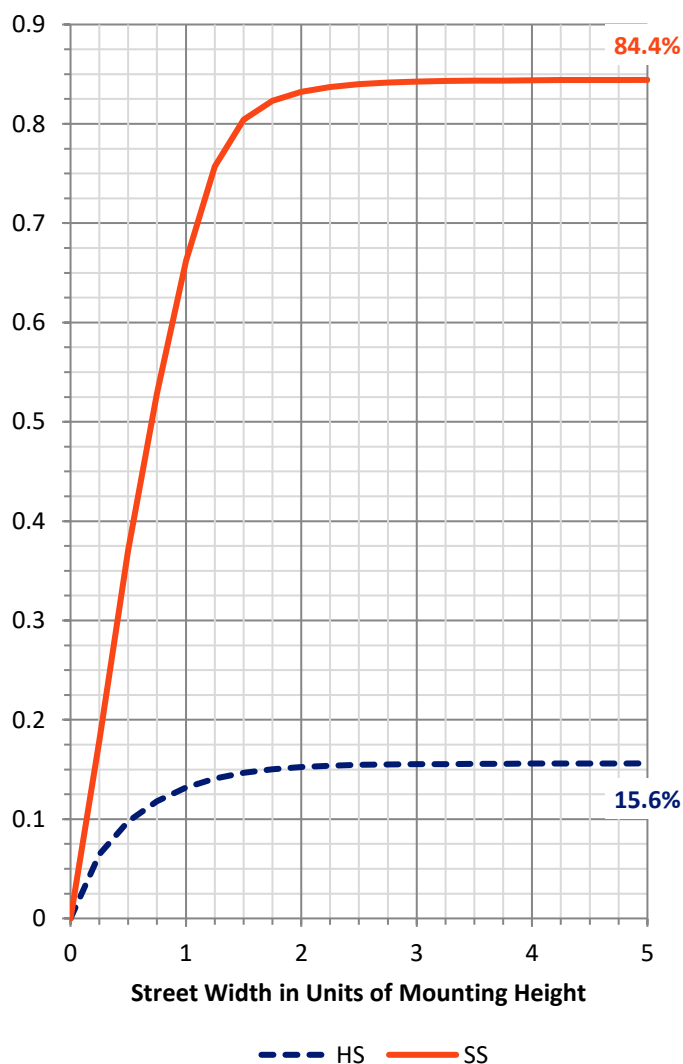
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2468.6	0.0	2468.6
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	13245.4	0.0	13245.4
	% Fixture	84.3	0.0	84.3
Total	Lumens	15714.0	0.0	15714.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.5	1.7
10°-20°	846.5	5.4
20°-30°	1534.9	9.8
30°-40°	2647.0	16.8
40°-50°	4300.2	27.4
50°-60°	4532.5	28.8
60°-70°	1384.9	8.8
70°-80°	177.5	1.1
80°-90°	27.0	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°	15714.0	100.0
0°-180°	15714.0	100.0

Coefficient of Utilization

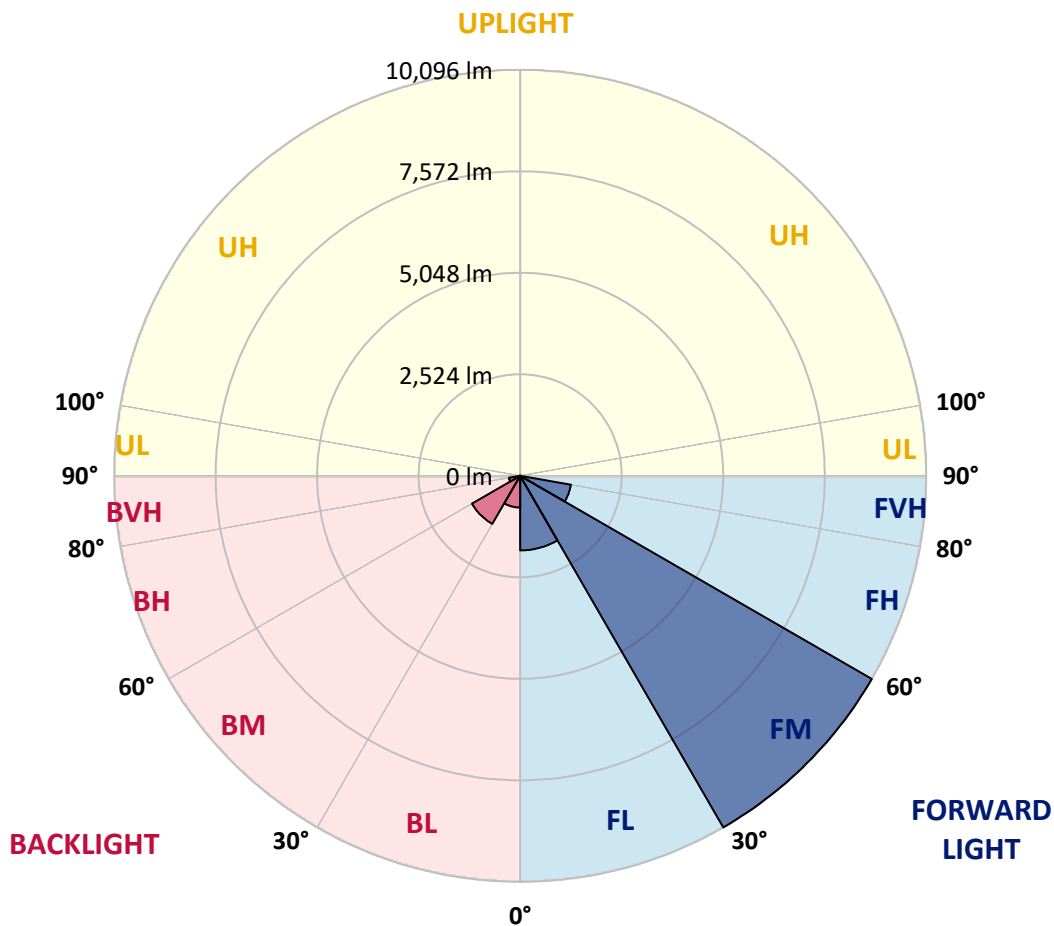


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1855.2	11.8			
FM (30°-60°)	10096.2	64.2			
FH (60°-80°)	1280.8	8.2			G1/1800
FVH (80°-90°)	13.2	0.1			G1/100
BL (0°-30°)	789.7	5.0	B2/1000		
BM (30°-60°)	1383.5	8.8	B2/2500		
BH (60°-80°)	281.6	1.8	B1/500		G1/500
BVH (80°-90°)	13.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2615.6	2615.6	2615.6	2615.6	2615.6	2615.6	2615.6	2615.6	2615.6	2615.6	2615.6
2.5°	3012.5	2942.9	2945.8	2940.0	2931.3	2899.5	2803.9	2789.4	2725.7	2708.3	2650.4
5°	3374.5	3313.7	3348.5	3296.3	3247.1	3218.1	3061.7	2989.3	2887.9	2850.2	2769.1
7.5°	3600.5	3571.5	3559.9	3562.8	3516.5	3444.0	3374.5	3215.2	3079.1	3050.1	2879.2
10°	3710.5	3693.1	3710.5	3701.8	3722.1	3730.8	3609.1	3513.6	3313.7	3264.5	2998.0
12.5°	3736.6	3771.4	3785.8	3823.5	3872.7	3956.7	3948.0	3817.7	3551.2	3519.4	3180.5
15°	3800.3	3829.3	3814.8	3875.6	3968.3	4110.3	4185.6	4165.3	3878.5	3820.6	3391.9
17.5°	3858.3	3806.1	3855.4	3977.0	4069.7	4287.0	4469.4	4553.4	4234.8	4168.2	3586.0
20°	3936.5	3922.0	3913.3	3974.1	4139.2	4428.9	4791.0	4944.5	4634.5	4565.0	3864.0
22.5°	4174.0	4176.9	4171.1	4081.3	4200.1	4527.4	5071.9	5451.4	5112.5	5054.5	4179.8
25°	4486.8	4449.2	4420.2	4347.8	4333.3	4617.2	5355.8	6071.2	5686.0	5645.4	4521.6
27.5°	4817.0	4817.0	4730.1	4663.5	4570.8	4840.2	5616.5	6673.7	6378.3	6323.3	4819.9
30°	5176.2	5196.5	5184.9	5043.0	4985.0	5083.5	5883.0	7444.2	7172.0	7102.4	5312.3
32.5°	5706.3	5662.8	5712.1	5593.3	5422.4	5509.3	6303.0	8133.6	8203.1	8104.7	5958.3
35°	6407.3	6381.2	6349.3	6155.2	5952.5	6022.0	6896.8	8982.3	9497.9	9448.7	6610.0
37.5°	7035.8	7021.3	6995.3	6862.0	6627.4	6711.4	7571.7	9865.8	10760.8	10598.6	7531.1
40°	7696.2	7774.4	7690.4	7571.7	7357.3	7542.7	8365.3	10390.1	11823.9	11626.9	8235.0
42.5°	8591.3	8530.5	8568.1	8350.9	8235.0	8437.8	9161.9	10914.3	12649.4	12414.8	8982.3
45°	9544.3	9547.2	9445.8	9376.3	9075.0	9295.2	9651.4	11204.0	13306.9	13124.4	9547.2
47.5°	10155.4	10152.5	10262.6	10372.7	10062.7	9845.5	9984.5	11479.2	13645.8	13561.8	9752.8
50°	10059.8	10088.8	10230.7	10642.1	10804.3	10511.7	10297.4	11398.1	13799.3	13790.7	9929.5
52.5°	8750.6	8846.2	9083.7	9677.5	10494.3	10856.4	10624.7	11548.7	13874.7	13889.1	10193.1
55°	6662.2	6714.3	7166.2	7887.4	8791.1	10030.9	10494.3	11667.5	13932.6	13958.7	10511.7
56°	5778.7	5639.7	6291.4	6804.1	7884.5	9240.1	10164.1	11574.8	13897.8	14097.7	10671.0
57.5°	4362.3	4269.6	4796.7	5436.9	6476.8	7907.7	9138.7	11137.4	13663.2	13660.3	10442.2
60°	2653.3	2560.6	2966.1	3342.7	3924.9	4869.2	6175.5	8869.4	11551.6	11794.9	8455.1
62.5°	1578.6	1636.6	2036.3	2265.1	2453.4	2551.9	3194.9	5271.8	7707.8	7881.6	5245.7
65°	1051.5	1071.7	1373.0	1749.5	1833.5	1459.9	1300.6	2134.8	3342.7	3235.5	2163.8
67.5°	648.8	695.2	921.1	1315.1	1457.0	1065.9	617.0	796.6	921.1	921.1	625.7
70°	393.9	417.1	614.1	895.0	999.3	686.5	449.0	449.0	443.2	434.5	373.7
72.5°	188.3	202.8	312.8	460.6	469.2	362.1	347.6	379.5	370.8	367.9	309.9
75°	81.1	86.9	110.1	144.8	165.1	153.5	211.5	272.3	281.0	272.3	223.0
77.5°	26.1	29.0	40.6	52.1	55.0	66.6	89.8	113.0	130.3	121.7	110.1
80°	2.9	5.8	11.6	26.1	40.6	52.1	66.6	75.3	84.0	84.0	78.2
82.5°	2.9	2.9	11.6	23.2	37.7	49.2	63.7	72.4	84.0	86.9	81.1
85°	0.0	2.9	8.7	20.3	31.9	31.9	29.0	29.0	20.3	20.3	20.3
87.5°	0.0	0.0	2.9	2.9	2.9	5.8	5.8	5.8	5.8	5.8	5.8
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°	2615.6	2615.6	2615.6	2615.6	2615.6	2615.6	2615.6	2615.6	2615.6	2615.6	2615.6
2.5°	2638.8	2633.0	2554.8	2505.5	2479.5	2427.3	2395.5	2372.3	2354.9	2334.6	2337.5
5°	2673.6	2653.3	2522.9	2433.1	2326.0	2268.0	2218.8	2178.2	2152.2	2146.4	2134.8
7.5°	2772.0	2664.9	2467.9	2305.7	2169.5	2111.6	2068.2	2042.1	2053.7	2027.6	2047.9
10°	2847.3	2688.0	2401.3	2166.6	2030.5	1987.1	1963.9	1984.2	2013.1	2001.5	1987.1
12.5°	2940.0	2711.2	2294.1	2033.4	1906.0	1874.1	1914.6	1952.3	2010.2	2033.4	2004.4
15°	3044.3	2737.3	2158.0	1879.9	1798.8	1824.9	1894.4	1961.0	2018.9	2047.9	2065.3
17.5°	3171.8	2728.6	2024.7	1758.2	1697.4	1772.7	1856.7	1917.5	2004.4	2047.9	2036.3
20°	3290.5	2699.6	1877.0	1636.6	1639.5	1709.0	1778.5	1877.0	1923.3	1981.3	1961.0
22.5°	3403.5	2647.5	1723.5	1552.6	1552.6	1659.7	1694.5	1758.2	1798.8	1827.7	1824.9
25°	3562.8	2549.0	1596.0	1471.5	1506.2	1575.7	1604.7	1625.0	1607.6	1630.8	1633.7
27.5°	3675.8	2447.6	1491.7	1399.1	1462.8	1514.9	1506.2	1494.6	1454.1	1422.2	1442.5
30°	3797.4	2328.9	1401.9	1349.8	1384.6	1430.9	1396.2	1361.4	1297.7	1245.5	1248.4
32.5°	3971.2	2273.8	1323.7	1291.9	1338.2	1344.0	1306.4	1254.2	1190.5	1141.3	1138.4
35°	4295.6	2239.1	1257.1	1254.2	1262.9	1265.8	1228.2	1164.4	1138.4	1097.8	1112.3
37.5°	4620.1	2221.7	1210.8	1199.2	1196.3	1199.2	1155.7	1094.9	1144.2	1141.3	1147.0
40°	5034.3	2299.9	1144.2	1129.7	1132.6	1132.6	1077.5	1060.2	1147.0	1155.7	1158.6
42.5°	5454.3	2398.4	1100.7	1054.4	1065.9	1065.9	1037.0	1016.7	1077.5	1019.6	1010.9
45°	5819.2	2543.2	1054.4	979.0	1008.0	1022.5	1013.8	979.0	941.4	842.9	842.9
47.5°	5938.0	2670.7	999.3	906.6	929.8	993.5	967.5	895.0	828.4	747.3	741.5
50°	6146.6	2809.7	955.9	822.6	871.9	950.1	924.0	851.6	776.3	718.4	721.3
52.5°	6360.9	2969.0	874.8	724.1	785.0	915.3	915.3	834.2	718.4	677.8	672.0
55°	6682.4	2963.2	729.9	593.8	701.0	863.2	877.7	747.3	643.0	611.2	611.2
56°	6728.8	2830.0	657.5	556.1	663.3	848.7	851.6	724.1	614.1	579.3	579.3
57.5°	6381.2	2554.8	576.4	509.8	617.0	822.6	825.5	703.9	590.9	541.7	535.9
60°	4909.7	1729.3	480.8	454.8	559.0	741.5	756.0	640.1	518.5	480.8	477.9
62.5°	2772.0	958.8	422.9	411.3	480.8	631.5	674.9	559.0	440.3	420.0	425.8
65°	1265.8	527.2	356.3	333.1	388.1	486.6	544.6	460.6	362.1	338.9	338.9
67.5°	463.5	359.2	304.1	263.6	272.3	315.7	353.4	298.3	240.4	205.7	214.3
70°	330.2	301.2	266.5	228.8	211.5	205.7	202.8	168.0	118.8	92.7	98.5
72.5°	266.5	249.1	223.0	194.1	165.1	139.0	118.8	86.9	55.0	37.7	34.8
75°	191.2	182.5	162.2	139.0	115.9	98.5	81.1	55.0	29.0	14.5	14.5
77.5°	98.5	98.5	95.6	86.9	72.4	57.9	46.3	31.9	17.4	5.8	5.8
80°	75.3	81.1	84.0	75.3	66.6	52.1	37.7	23.2	11.6	2.9	2.9
82.5°	72.4	84.0	89.8	78.2	66.6	49.2	37.7	23.2	11.6	2.9	2.9
85°	17.4	17.4	26.1	29.0	37.7	40.6	31.9	20.3	8.7	2.9	2.9
87.5°	5.8	5.8	5.8	5.8	5.8	5.8	2.9	2.9	2.9	2.9	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)