

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: P533777

Luminaire Tested: **GALN-SA9B-727-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533777  
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-SA9B-727-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 800mA 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: 25449 lumens  
Efficiency: N/A  
Efficacy: 69.9 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

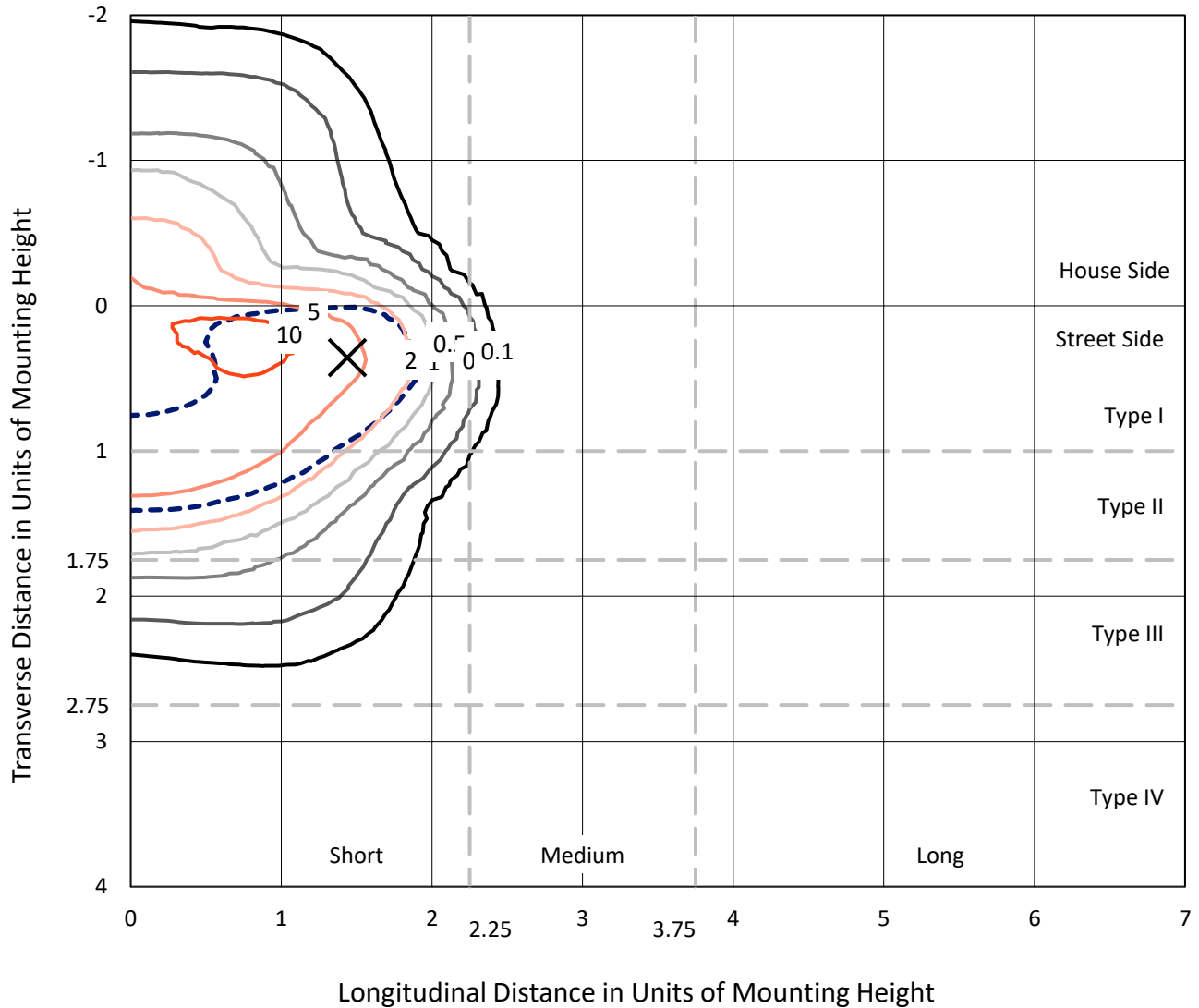
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

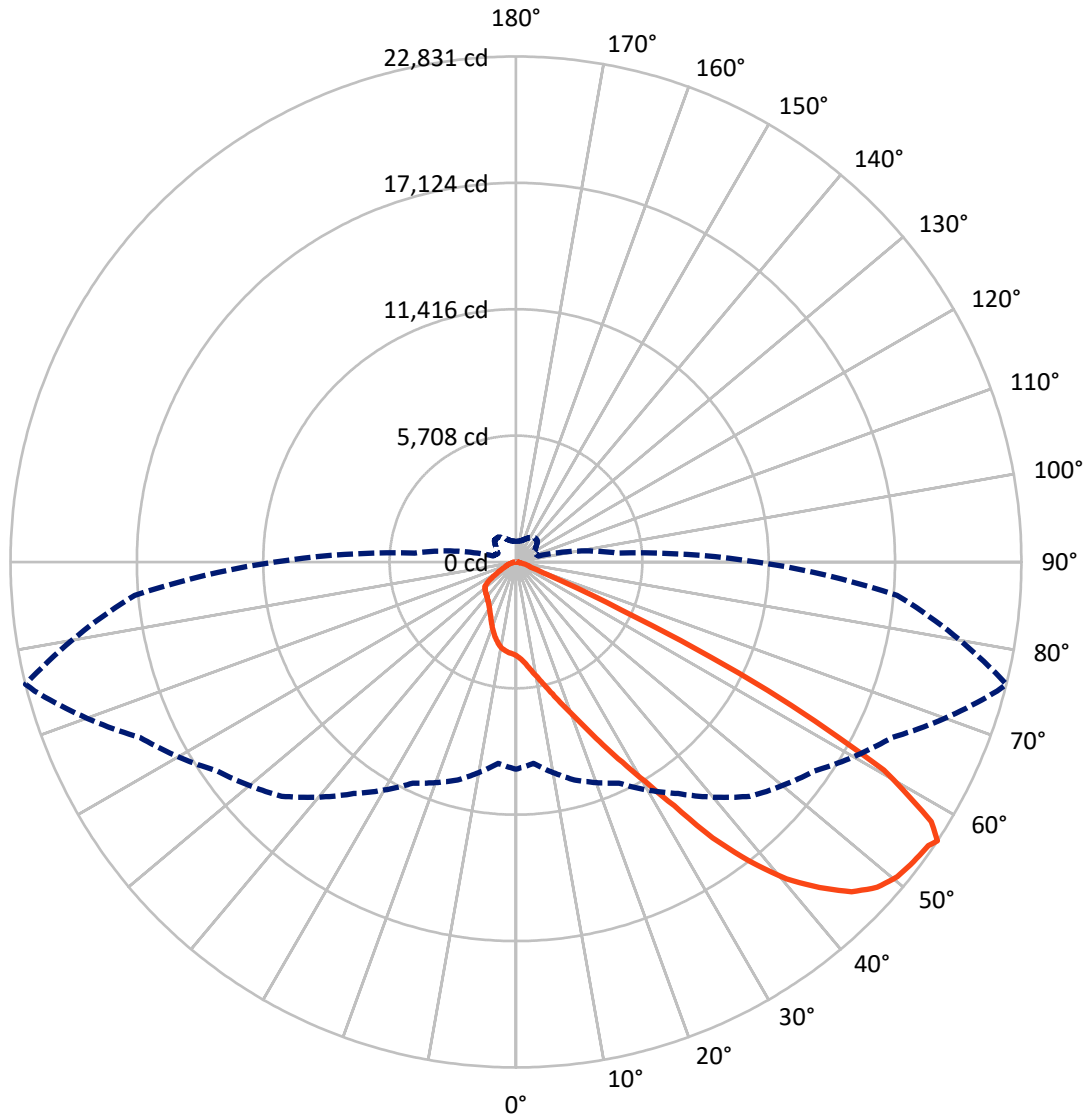
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 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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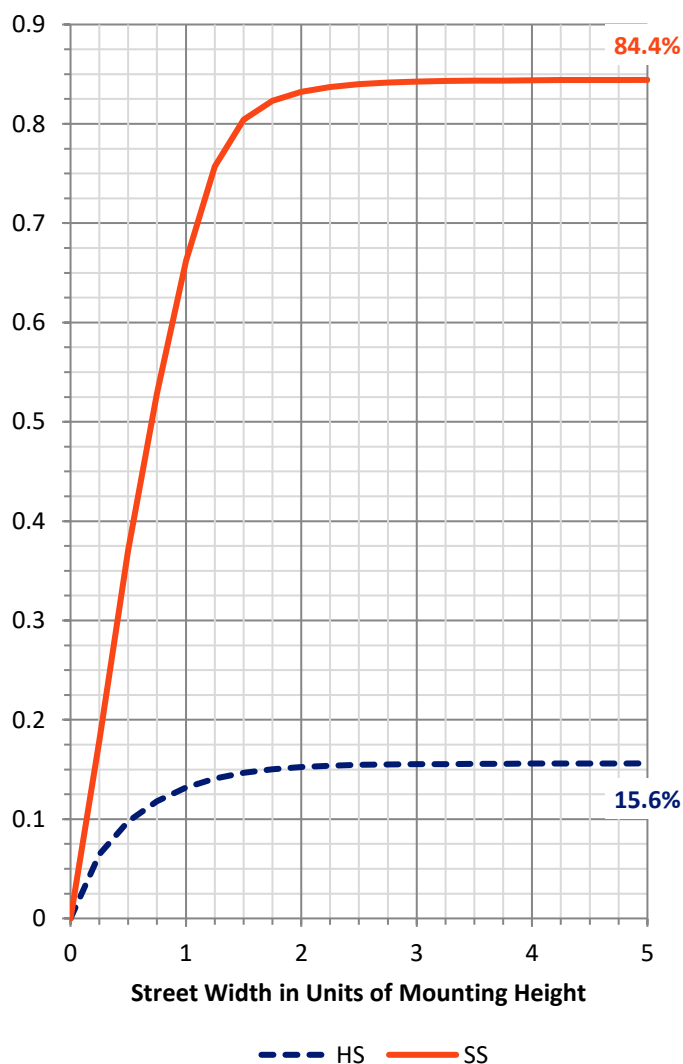
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3997.9	0.0	3997.9
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	21451.1	0.0	21451.1
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	25449.0	0.0	25449.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	426.7	1.7
10°-20°	1370.9	5.4
20°-30°	2485.8	9.8
30°-40°	4286.9	16.8
40°-50°	6964.2	27.4
50°-60°	7340.5	28.8
60°-70°	2242.8	8.8
70°-80°	287.5	1.1
80°-90°	43.7	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°	25449.0	100.0
0°-180°	25449.0	100.0

**Coefficient of Utilization**

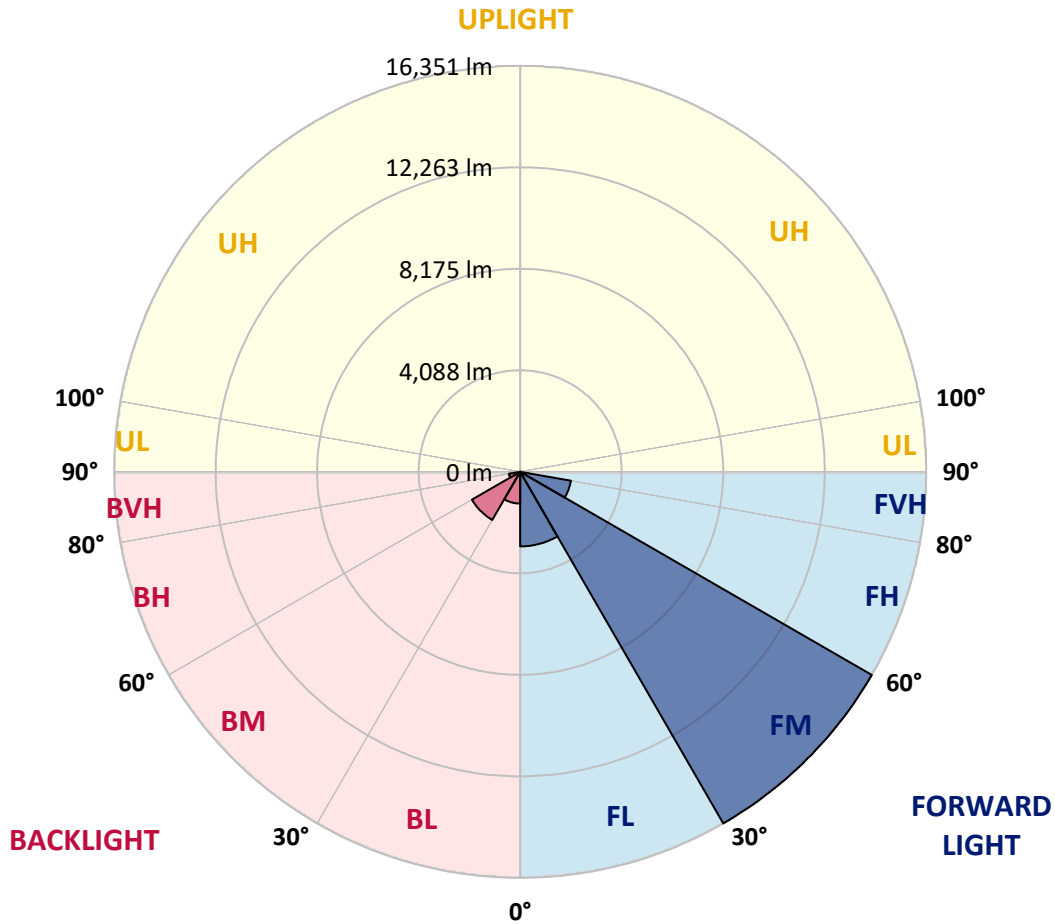


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3004.5	11.8			
FM (30°-60°)	16351.0	64.2			
FH (60°-80°)	2074.3	8.2			G2/5000
FVH (80°-90°)	21.4	0.1			G1/100
BL (0°-30°)	1278.9	5.0	B3/2500		
BM (30°-60°)	2240.6	8.8	B2/2500		
BH (60°-80°)	456.1	1.8	B1/500		G1/500
BVH (80°-90°)	22.3	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°	4236.0	4236.0	4236.0	4236.0	4236.0	4236.0	4236.0	4236.0	4236.0	4236.0	4236.0
2.5°	4878.7	4766.1	4770.8	4761.4	4747.3	4695.7	4540.9	4517.5	4414.3	4386.1	4292.3
5°	5465.1	5366.6	5422.9	5338.4	5258.7	5211.8	4958.4	4841.2	4677.0	4616.0	4484.7
7.5°	5831.0	5784.1	5765.3	5770.0	5694.9	5577.7	5465.1	5207.1	4986.6	4939.7	4662.9
10°	6009.2	5981.1	6009.2	5995.2	6028.0	6042.1	5845.1	5690.3	5366.6	5286.8	4855.2
12.5°	6051.5	6107.8	6131.2	6192.2	6271.9	6408.0	6393.9	6182.8	5751.2	5699.6	5150.8
15°	6154.7	6201.6	6178.1	6276.6	6426.7	6656.6	6778.6	6745.7	6281.3	6187.5	5493.2
17.5°	6248.5	6164.0	6243.8	6440.8	6590.9	6942.8	7238.3	7374.3	6858.3	6750.4	5807.5
20°	6375.1	6351.7	6337.6	6436.1	6703.5	7172.6	7759.0	8007.6	7505.7	7393.1	6257.9
22.5°	6759.8	6764.5	6755.1	6609.7	6802.0	7332.1	8214.0	8828.6	8279.7	8185.9	6769.2
25°	7266.4	7205.5	7158.6	7041.3	7017.8	7477.5	8673.8	9832.5	9208.5	9142.9	7322.7
27.5°	7801.2	7801.2	7660.5	7552.6	7402.5	7838.8	9096.0	10808.2	10329.7	10240.6	7805.9
30°	8382.9	8415.8	8397.0	8167.1	8073.3	8232.8	9527.5	12056.0	11615.1	11502.5	8603.4
32.5°	9241.4	9171.0	9250.8	9058.4	8781.7	8922.4	10207.7	13172.5	13285.1	13125.6	9649.5
35°	10376.6	10334.4	10282.8	9968.5	9640.1	9752.7	11169.4	14547.0	15382.0	15302.2	10705.0
37.5°	11394.6	11371.1	11328.9	11113.1	10733.1	10869.2	12262.4	15977.7	17427.3	17164.6	12196.7
40°	12464.1	12590.8	12454.8	12262.4	11915.3	12215.5	13547.8	16826.8	19148.9	18829.9	13336.7
42.5°	13913.7	13815.2	13876.1	13524.3	13336.7	13665.0	14837.8	17675.9	20485.8	20105.9	14547.0
45°	15457.0	15461.7	15297.5	15185.0	14697.1	15053.6	15630.6	18145.0	21550.7	21255.2	15461.7
47.5°	16446.8	16442.2	16620.4	16798.7	16296.7	15944.9	16170.1	18590.7	22099.6	21963.5	15794.8
50°	16292.0	16339.0	16568.8	17234.9	17497.6	17023.8	16676.7	18459.3	22348.2	22334.1	16080.9
52.5°	14171.7	14326.5	14711.2	15672.8	16995.7	17582.1	17206.8	18703.2	22470.2	22493.6	16507.8
55°	10789.4	10873.9	11605.7	12773.7	14237.4	16245.1	16995.7	18895.6	22564.0	22606.2	17023.8
56°	9358.7	9133.5	10189.0	11019.3	12769.1	14964.5	16460.9	18745.5	22507.7	22831.4	17281.9
57.5°	7064.7	6914.6	7768.4	8805.1	10489.2	12806.6	14800.3	18037.1	22127.7	22123.0	16911.3
60°	4297.0	4146.9	4803.6	5413.5	6356.4	7885.7	10001.3	14364.0	18707.9	19102.0	13693.2
62.5°	2556.6	2650.4	3297.8	3668.4	3973.3	4132.8	5174.2	8537.7	12482.9	12764.4	8495.5
65°	1702.9	1735.7	2223.6	2833.4	2969.4	2364.3	2106.3	3457.3	5413.5	5239.9	3504.2
67.5°	1050.8	1125.9	1491.8	2129.7	2359.6	1726.3	999.2	1290.0	1491.8	1491.8	1013.3
70°	638.0	675.5	994.5	1449.5	1618.4	1111.8	727.1	727.1	717.7	703.7	605.1
72.5°	304.9	328.4	506.6	745.9	760.0	586.4	562.9	614.5	600.5	595.8	501.9
75°	131.3	140.7	178.3	234.6	267.4	248.6	342.4	441.0	455.0	441.0	361.2
77.5°	42.2	46.9	65.7	84.4	89.1	107.9	145.4	183.0	211.1	197.0	178.3
80°	4.7	9.4	18.8	42.2	65.7	84.4	107.9	122.0	136.0	136.0	126.7
82.5°	4.7	4.7	18.8	37.5	61.0	79.7	103.2	117.3	136.0	140.7	131.3
85°	0.0	4.7	14.1	32.8	51.6	51.6	46.9	46.9	32.8	32.8	32.8
87.5°	0.0	0.0	4.7	4.7	4.7	9.4	9.4	9.4	9.4	9.4	9.4
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°	4236.0	4236.0	4236.0	4236.0	4236.0	4236.0	4236.0	4236.0	4236.0	4236.0	4236.0
2.5°	4273.6	4264.2	4137.5	4057.8	4015.5	3931.1	3879.5	3842.0	3813.8	3781.0	3785.7
5°	4329.8	4297.0	4085.9	3940.5	3766.9	3673.1	3593.3	3527.7	3485.5	3476.1	3457.3
7.5°	4489.3	4315.8	3996.8	3734.1	3513.6	3419.8	3349.4	3307.2	3326.0	3283.7	3316.6
10°	4611.3	4353.3	3888.9	3508.9	3288.4	3218.1	3180.5	3213.4	3260.3	3241.5	3218.1
12.5°	4761.4	4390.8	3715.3	3293.1	3086.7	3035.1	3100.8	3161.8	3255.6	3293.1	3246.2
15°	4930.3	4433.0	3494.8	3044.5	2913.1	2955.4	3068.0	3175.8	3269.7	3316.6	3344.7
17.5°	5136.7	4419.0	3279.0	2847.5	2749.0	2870.9	3007.0	3105.5	3246.2	3316.6	3297.8
20°	5329.0	4372.1	3039.8	2650.4	2655.1	2767.7	2880.3	3039.8	3114.9	3208.7	3175.8
22.5°	5512.0	4287.6	2791.2	2514.4	2514.4	2688.0	2744.3	2847.5	2913.1	2960.1	2955.4
25°	5770.0	4128.1	2584.8	2383.1	2439.3	2551.9	2598.8	2631.7	2603.5	2641.1	2645.8
27.5°	5953.0	3963.9	2415.9	2265.8	2369.0	2453.4	2439.3	2420.6	2354.9	2303.3	2336.1
30°	6150.0	3771.6	2270.5	2186.0	2242.3	2317.4	2261.1	2204.8	2101.6	2017.2	2021.8
32.5°	6431.4	3682.5	2143.8	2092.2	2167.3	2176.7	2115.7	2031.2	1928.0	1848.3	1843.6
35°	6956.8	3626.2	2035.9	2031.2	2045.3	2050.0	1989.0	1885.8	1843.6	1777.9	1801.4
37.5°	7482.2	3598.0	1960.9	1942.1	1937.4	1942.1	1871.7	1773.2	1853.0	1848.3	1857.7
40°	8153.1	3724.7	1853.0	1829.5	1834.2	1834.2	1745.1	1716.9	1857.7	1871.7	1876.4
42.5°	8833.3	3884.2	1782.6	1707.5	1726.3	1726.3	1679.4	1646.6	1745.1	1651.3	1637.2
45°	9424.3	4118.7	1707.5	1585.6	1632.5	1655.9	1641.9	1585.6	1524.6	1365.1	1365.1
47.5°	9616.7	4325.2	1618.4	1468.3	1505.8	1609.0	1566.8	1449.5	1341.6	1210.3	1200.9
50°	9954.4	4550.3	1548.0	1332.3	1412.0	1538.7	1496.4	1379.2	1257.2	1163.4	1168.1
52.5°	10301.6	4808.3	1416.7	1172.8	1271.3	1482.4	1482.4	1351.0	1163.4	1097.7	1088.3
55°	10822.3	4799.0	1182.1	961.7	1135.2	1397.9	1421.4	1210.3	1041.4	989.8	989.8
56°	10897.3	4583.2	1064.9	900.7	1074.3	1374.5	1379.2	1172.8	994.5	938.2	938.2
57.5°	10334.4	4137.5	933.5	825.6	999.2	1332.3	1337.0	1139.9	957.0	877.2	867.8
60°	7951.3	2800.6	778.7	736.5	905.4	1200.9	1224.4	1036.7	839.7	778.7	774.0
62.5°	4489.3	1552.7	684.9	666.1	778.7	1022.7	1093.0	905.4	713.0	680.2	689.6
65°	2050.0	853.8	577.0	539.5	628.6	788.1	881.9	745.9	586.4	548.9	548.9
67.5°	750.6	581.7	492.6	426.9	441.0	511.3	572.3	483.2	389.4	333.1	347.1
70°	534.8	487.9	431.6	370.6	342.4	333.1	328.4	272.1	192.3	150.1	159.5
72.5°	431.6	403.4	361.2	314.3	267.4	225.2	192.3	140.7	89.1	61.0	56.3
75°	309.6	295.5	262.7	225.2	187.6	159.5	131.3	89.1	46.9	23.5	23.5
77.5°	159.5	159.5	154.8	140.7	117.3	93.8	75.1	51.6	28.1	9.4	9.4
80°	122.0	131.3	136.0	122.0	107.9	84.4	61.0	37.5	18.8	4.7	4.7
82.5°	117.3	136.0	145.4	126.7	107.9	79.7	61.0	37.5	18.8	4.7	4.7
85°	28.1	28.1	42.2	46.9	61.0	65.7	51.6	32.8	14.1	4.7	4.7
87.5°	9.4	9.4	9.4	9.4	9.4	9.4	4.7	4.7	4.7	4.7	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)