

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: P647453

Luminaire Tested: **GALN-SA5D-835-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647453  
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-SA5D-835-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 1200mA 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: 17893.9 lumens  
Efficiency: N/A  
Efficacy: 57.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

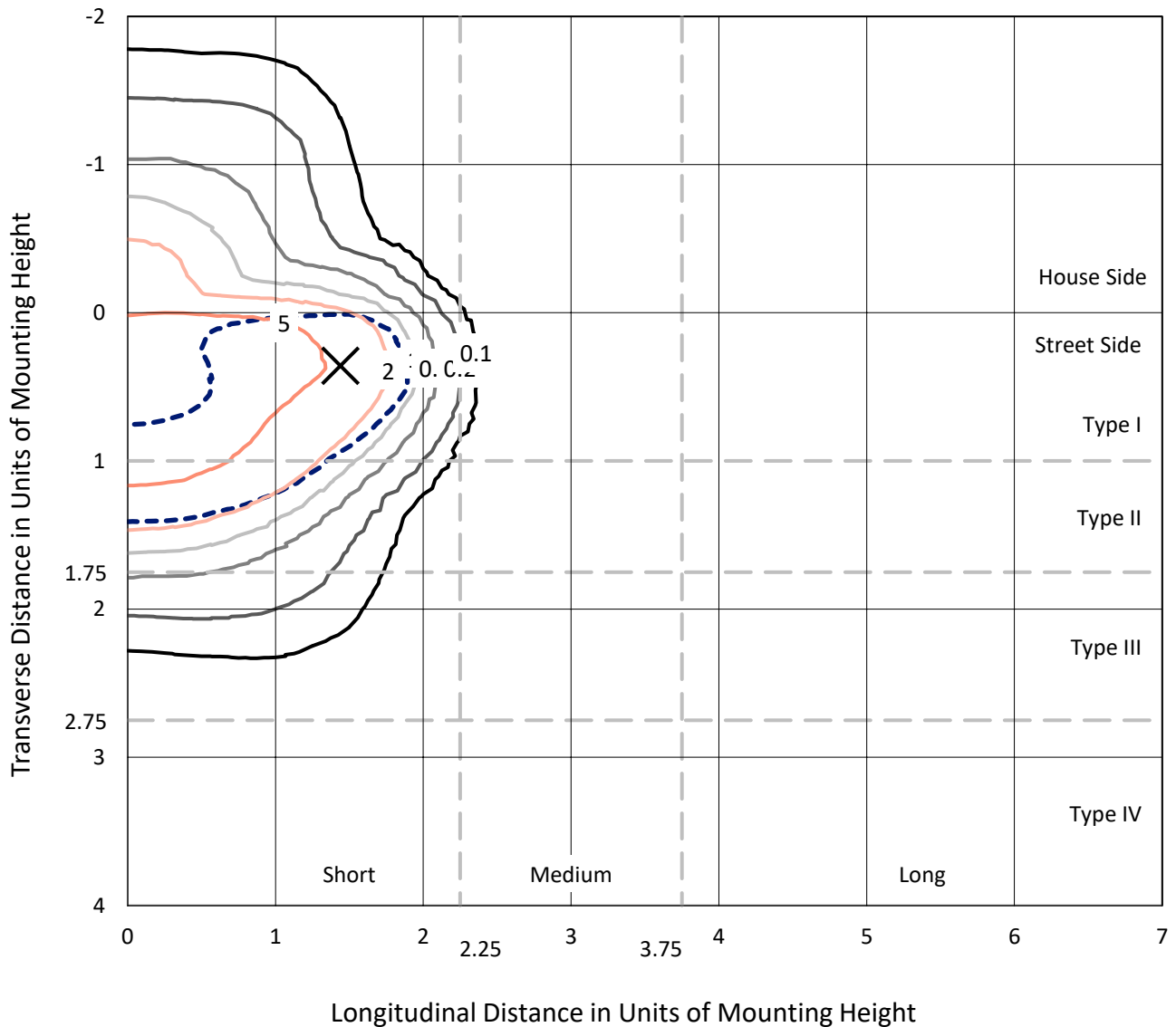
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

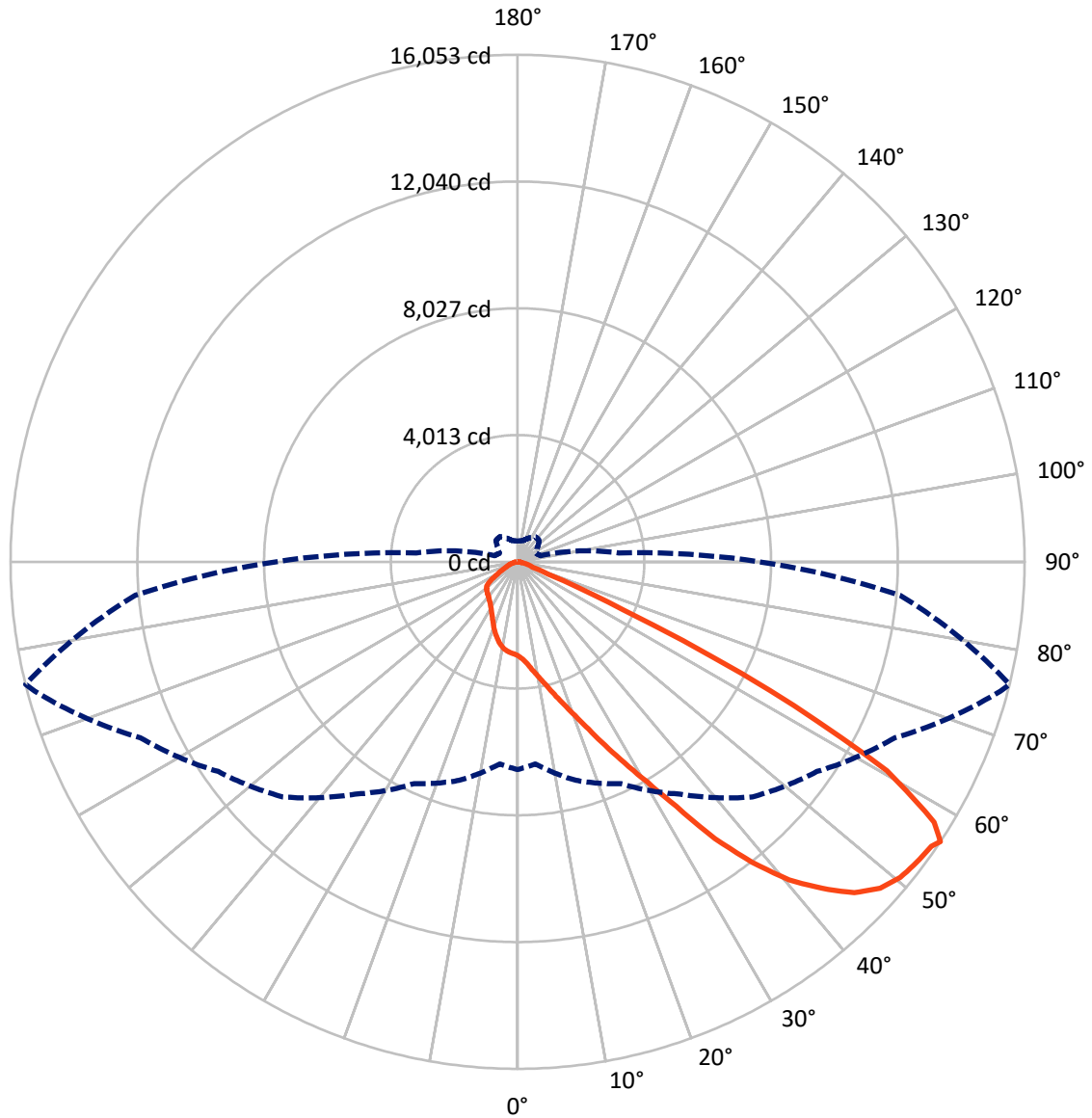
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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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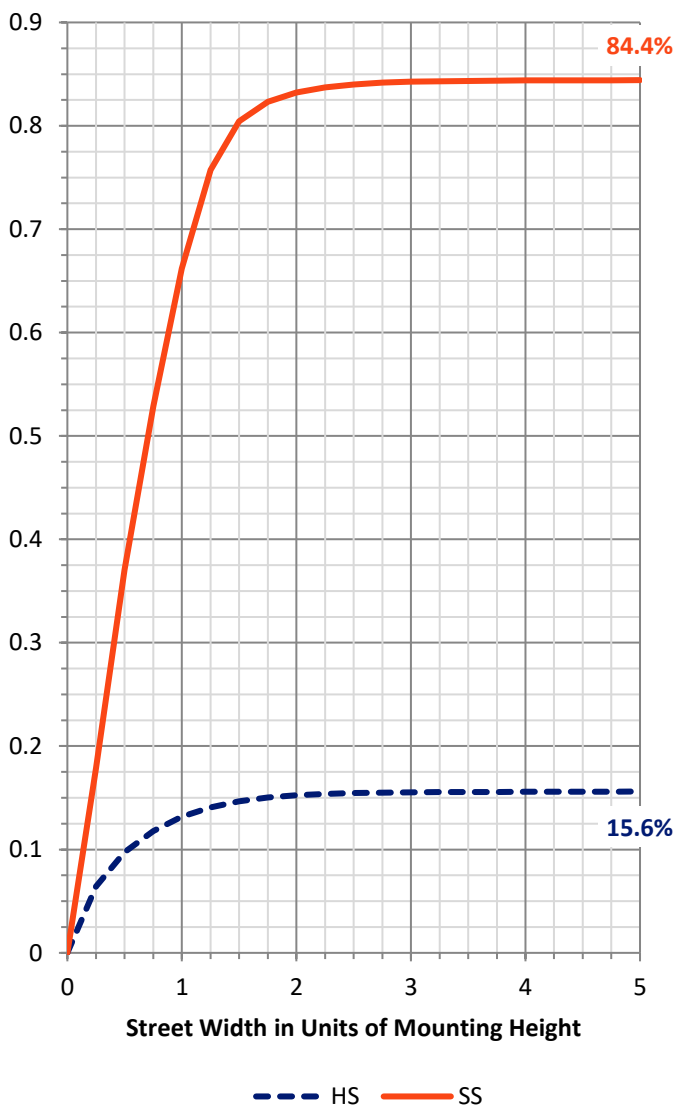
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2811.0	0.0	2811.0
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	15082.9	0.0	15082.9
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	17893.9	0.0	17893.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	300.0	1.7
10°-20°	963.9	5.4
20°-30°	1747.8	9.8
30°-40°	3014.2	16.8
40°-50°	4896.7	27.4
50°-60°	5161.3	28.8
60°-70°	1577.0	8.8
70°-80°	202.2	1.1
80°-90°	30.7	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°	17893.9	100.0
0°-180°	17893.9	100.0

**Coefficient of Utilization**

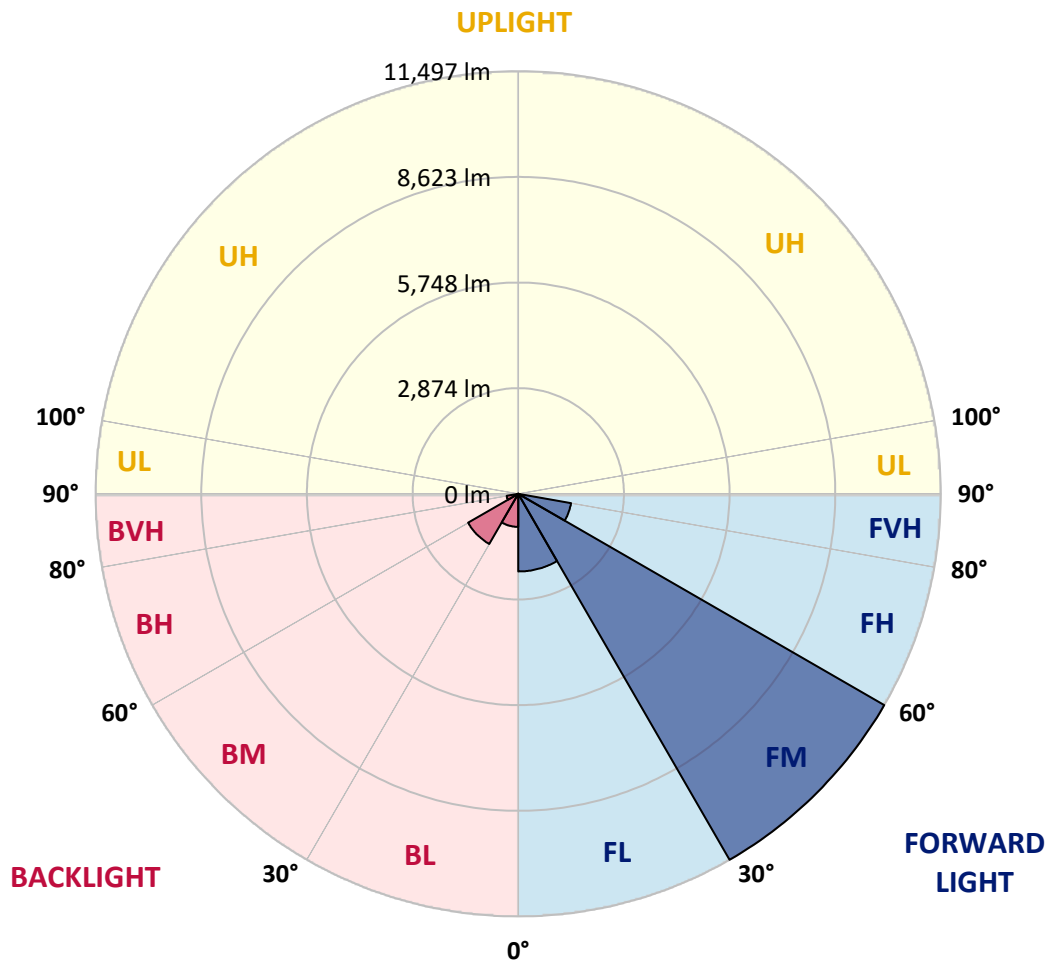


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2112.5	11.8			
FM (30°-60°)	11496.8	64.2			
FH (60°-80°)	1458.5	8.2			G1/1800
FVH (80°-90°)	15.1	0.1			G1/100
BL (0°-30°)	899.3	5.0	B2/1000		
BM (30°-60°)	1575.4	8.8	B2/2500		
BH (60°-80°)	320.7	1.8	B1/500		G1/500
BVH (80°-90°)	15.7	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°	2978.5	2978.5	2978.5	2978.5	2978.5	2978.5	2978.5	2978.5	2978.5	2978.5	2978.5
2.5°	3430.3	3351.2	3354.5	3347.9	3338.0	3301.7	3192.8	3176.4	3103.8	3084.0	3018.1
5°	3842.7	3773.4	3813.0	3753.6	3697.5	3664.5	3486.4	3403.9	3288.5	3245.6	3153.3
7.5°	4099.9	4067.0	4053.7	4057.0	4004.3	3921.8	3842.7	3661.2	3506.2	3473.2	3278.7
10°	4225.3	4205.5	4225.3	4215.4	4238.5	4248.3	4109.8	4001.0	3773.4	3717.3	3413.9
12.5°	4255.0	4294.5	4311.0	4353.9	4410.0	4505.6	4495.8	4347.3	4043.9	4007.6	3621.7
15°	4327.5	4360.5	4344.0	4413.3	4518.8	4680.5	4766.2	4743.1	4416.6	4350.6	3862.5
17.5°	4393.5	4334.1	4390.2	4528.7	4634.3	4881.6	5089.4	5185.1	4822.3	4746.4	4083.4
20°	4482.5	4466.1	4456.1	4525.4	4713.4	5043.3	5455.6	5630.4	5277.5	5198.3	4400.1
22.5°	4753.0	4756.3	4749.7	4647.5	4782.7	5155.4	5775.5	6207.6	5821.7	5755.8	4759.6
25°	5109.2	5066.3	5033.4	4950.9	4934.4	5257.7	6098.8	6913.5	6474.8	6428.6	5148.9
27.5°	5485.2	5485.2	5386.3	5310.5	5204.9	5511.6	6395.6	7599.6	7263.1	7200.5	5488.6
30°	5894.3	5917.4	5904.1	5742.5	5676.6	5788.7	6699.1	8476.9	8166.8	8087.7	6049.3
32.5°	6497.9	6448.4	6504.5	6369.2	6174.7	6273.6	7177.4	9262.0	9341.1	9229.0	6784.9
35°	7296.1	7266.4	7230.1	7009.1	6778.3	6857.4	7853.5	10228.4	10815.5	10759.4	7527.0
37.5°	8011.8	7995.4	7965.7	7813.9	7546.8	7642.4	8622.1	11234.4	12253.6	12068.9	8575.9
40°	8763.9	8852.9	8757.3	8622.1	8377.9	8589.0	9525.8	11831.4	13464.2	13239.8	9377.4
42.5°	9783.1	9713.8	9756.7	9509.3	9377.4	9608.3	10432.8	12428.4	14404.1	14137.0	10228.4
45°	10868.3	10871.6	10756.1	10677.0	10334.0	10584.6	10990.3	12758.3	15152.9	14945.1	10871.6
47.5°	11564.2	11560.9	11686.3	11811.6	11458.7	11211.3	11369.6	13071.6	15538.8	15443.2	11105.8
50°	11455.4	11488.3	11650.0	12118.3	12303.0	11970.0	11725.9	12979.2	15713.6	15703.8	11307.0
52.5°	9964.5	10073.4	10343.8	11020.0	11950.1	12362.5	12098.6	13150.8	15799.4	15815.9	11607.1
55°	7586.3	7645.7	8160.3	8981.6	10010.7	11422.4	11950.1	13286.0	15865.4	15895.1	11970.0
56°	6580.3	6422.0	7164.1	7747.9	8978.3	10522.0	11574.1	13180.5	15825.8	16053.4	12151.4
57.5°	4967.4	4861.9	5462.2	6191.1	7375.2	9004.7	10406.5	12682.4	15558.6	15555.3	11890.8
60°	3021.4	2915.8	3377.5	3806.4	4469.4	5544.7	7032.2	10099.8	13154.1	13431.1	9628.1
62.5°	1797.6	1863.6	2318.8	2579.4	2793.7	2905.9	3638.1	6003.1	8777.0	8975.0	5973.4
65°	1197.3	1220.4	1563.4	1992.3	2087.9	1662.4	1481.0	2430.9	3806.4	3684.3	2463.9
67.5°	738.8	791.6	1048.9	1497.5	1659.1	1213.8	702.6	907.0	1048.9	1048.9	712.5
70°	448.6	475.0	699.3	1019.2	1137.9	781.7	511.2	511.2	504.6	494.8	425.5
72.5°	214.4	230.9	356.3	524.5	534.3	412.3	395.8	432.1	422.2	418.9	352.9
75°	92.4	99.0	125.4	164.9	188.0	174.8	240.8	310.1	319.9	310.1	254.0
77.5°	29.7	33.0	46.2	59.4	62.6	75.9	102.3	128.6	148.5	138.5	125.4
80°	3.3	6.6	13.2	29.7	46.2	59.4	75.9	85.7	95.7	95.7	89.0
82.5°	3.3	3.3	13.2	26.4	42.9	56.1	72.6	82.4	95.7	99.0	92.4
85°	0.0	3.3	9.9	23.1	36.3	36.3	33.0	33.0	23.1	23.1	23.1
87.5°	0.0	0.0	3.3	3.3	3.3	6.6	6.6	6.6	6.6	6.6	6.6
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°	2978.5	2978.5	2978.5	2978.5	2978.5	2978.5	2978.5	2978.5	2978.5	2978.5	2978.5
2.5°	3004.8	2998.3	2909.2	2853.1	2823.4	2764.1	2727.8	2701.4	2681.6	2658.5	2661.8
5°	3044.5	3021.4	2872.9	2770.6	2648.7	2582.6	2526.6	2480.4	2450.7	2444.1	2430.9
7.5°	3156.6	3034.5	2810.3	2625.6	2470.5	2404.5	2355.0	2325.4	2338.6	2308.9	2332.0
10°	3242.3	3060.9	2734.4	2467.2	2312.2	2262.7	2236.3	2259.4	2292.4	2279.2	2262.7
12.5°	3347.9	3087.3	2612.3	2315.5	2170.3	2134.1	2180.3	2223.1	2289.1	2315.5	2282.5
15°	3466.7	3117.0	2457.3	2140.6	2048.3	2078.0	2157.2	2233.0	2299.0	2332.0	2351.7
17.5°	3611.7	3107.1	2305.6	2002.1	1932.8	2018.7	2114.3	2183.6	2282.5	2332.0	2318.8
20°	3747.0	3074.1	2137.4	1863.6	1866.9	1946.1	2025.2	2137.4	2190.1	2256.1	2233.0
22.5°	3875.6	3014.8	1962.6	1767.9	1767.9	1890.0	1929.5	2002.1	2048.3	2081.3	2078.0
25°	4057.0	2902.6	1817.4	1675.6	1715.2	1794.3	1827.3	1850.4	1830.7	1857.0	1860.3
27.5°	4185.7	2787.2	1698.7	1593.2	1665.7	1725.1	1715.2	1702.0	1655.8	1619.6	1642.6
30°	4324.2	2651.9	1596.5	1537.0	1576.6	1629.4	1589.8	1550.3	1477.7	1418.3	1421.6
32.5°	4522.1	2589.2	1507.4	1471.1	1523.9	1530.5	1487.6	1428.2	1355.7	1299.5	1296.3
35°	4891.6	2549.7	1431.5	1428.2	1438.1	1441.4	1398.5	1325.9	1296.3	1250.1	1266.6
37.5°	5261.0	2529.9	1378.7	1365.6	1362.3	1365.6	1316.1	1246.8	1302.9	1299.5	1306.2
40°	5732.7	2619.0	1302.9	1286.4	1289.7	1289.7	1227.0	1207.2	1306.2	1316.1	1319.4
42.5°	6210.9	2731.1	1253.4	1200.7	1213.8	1213.8	1180.8	1157.7	1227.0	1161.0	1151.2
45°	6626.5	2896.0	1200.7	1114.8	1147.9	1164.3	1154.5	1114.8	1072.0	959.8	959.8
47.5°	6761.8	3041.2	1137.9	1032.4	1058.8	1131.4	1101.7	1019.2	943.4	851.0	844.4
50°	6999.2	3199.5	1088.4	936.8	992.8	1081.9	1052.2	969.7	884.0	818.0	821.3
52.5°	7243.3	3380.8	996.1	824.6	893.9	1042.3	1042.3	949.9	818.0	771.8	765.2
55°	7609.4	3374.3	831.2	676.2	798.2	982.9	999.4	851.0	732.3	695.9	695.9
56°	7662.2	3222.5	748.7	633.3	755.4	966.5	969.7	824.6	699.3	659.7	659.7
57.5°	7266.4	2909.2	656.4	580.5	702.6	936.8	940.1	801.5	672.9	616.8	610.2
60°	5590.8	1969.2	547.6	517.9	636.6	844.4	860.9	729.0	590.4	547.6	544.3
62.5°	3156.6	1091.7	481.5	468.4	547.6	719.0	768.5	636.6	501.4	478.3	484.8
65°	1441.4	600.3	405.7	379.3	442.0	554.1	620.1	524.5	412.3	385.9	385.9
67.5°	527.7	409.0	346.3	300.1	310.1	359.6	402.4	339.7	273.7	234.2	244.1
70°	376.0	343.0	303.5	260.6	240.8	234.2	230.9	191.3	135.2	105.5	112.1
72.5°	303.5	283.7	254.0	221.0	188.0	158.3	135.2	99.0	62.6	42.9	39.6
75°	217.7	207.8	184.7	158.3	131.9	112.1	92.4	62.6	33.0	16.5	16.5
77.5°	112.1	112.1	108.8	99.0	82.4	66.0	52.8	36.3	19.8	6.6	6.6
80°	85.7	92.4	95.7	85.7	75.9	59.4	42.9	26.4	13.2	3.3	3.3
82.5°	82.4	95.7	102.3	89.0	75.9	56.1	42.9	26.4	13.2	3.3	3.3
85°	19.8	19.8	29.7	33.0	42.9	46.2	36.3	23.1	9.9	3.3	3.3
87.5°	6.6	6.6	6.6	6.6	6.6	6.6	3.3	3.3	3.3	3.3	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)