

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: P527772

Luminaire Tested: **GALN-SA2D-740-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527772  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2D-740-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13048 lumens  
Efficiency: N/A  
Efficacy: 104.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

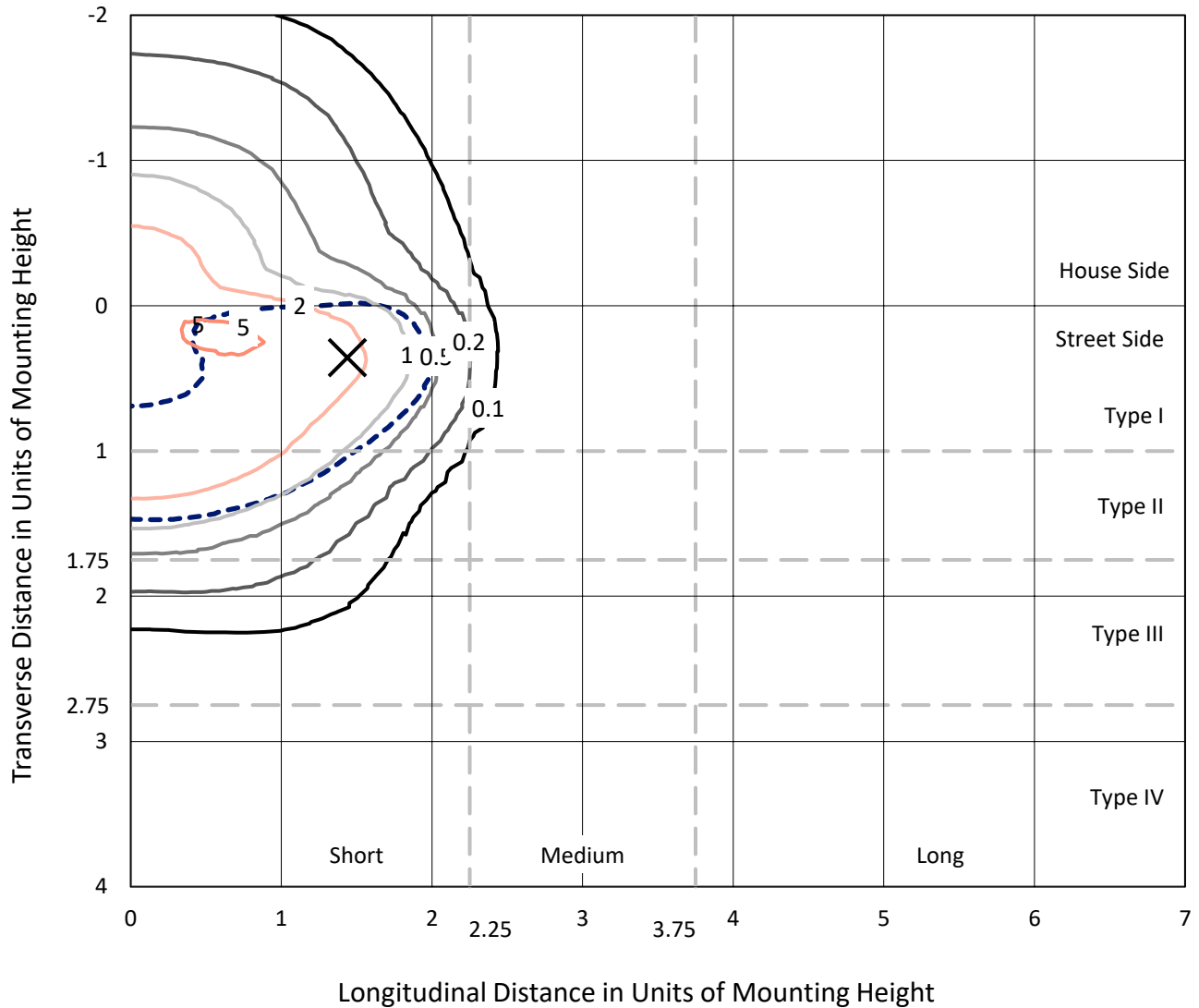
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

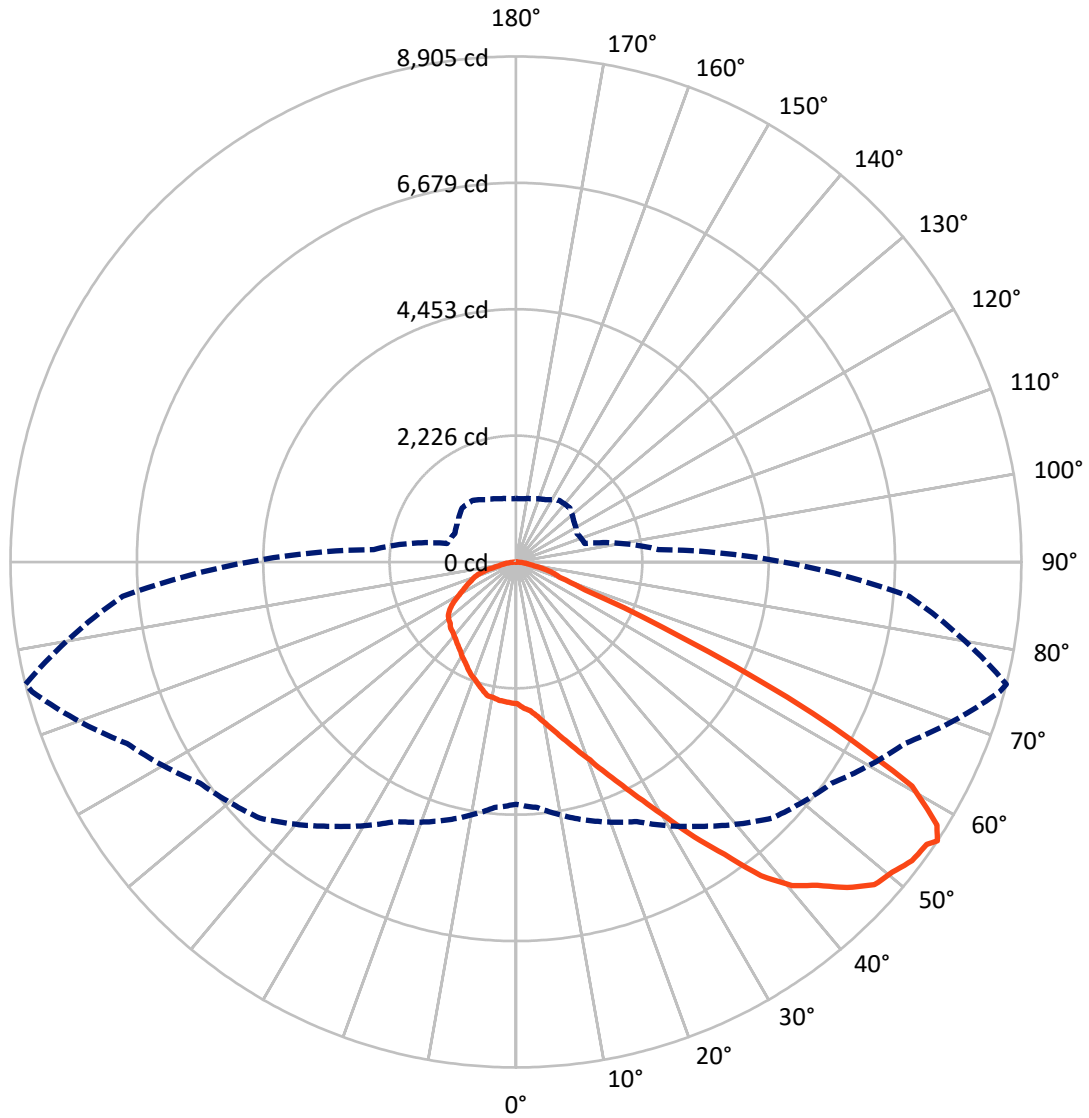
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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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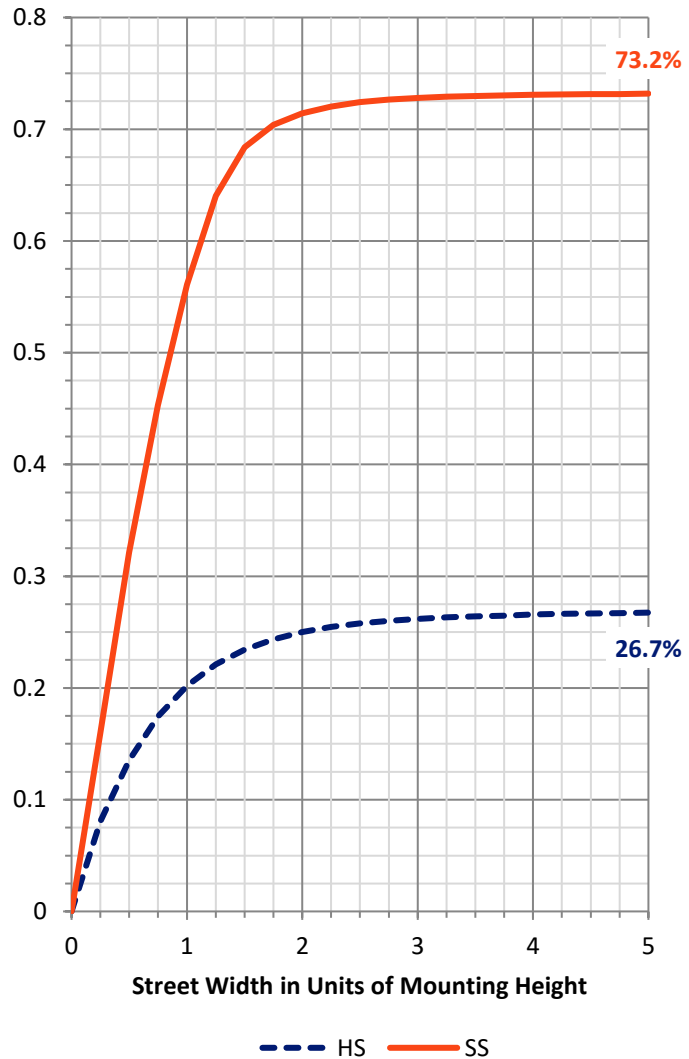
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3508.2	0.0	3508.2
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	9539.8	0.0	9539.8
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	13048.0	0.0	13048.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.6	1.9
10°-20°	777.7	6.0
20°-30°	1360.2	10.4
30°-40°	2129.6	16.3
40°-50°	3098.0	23.7
50°-60°	3404.9	26.1
60°-70°	1519.8	11.6
70°-80°	439.0	3.4
80°-90°	71.2	0.5
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°	13048.0	100.0
0°-180°	13048.0	100.0



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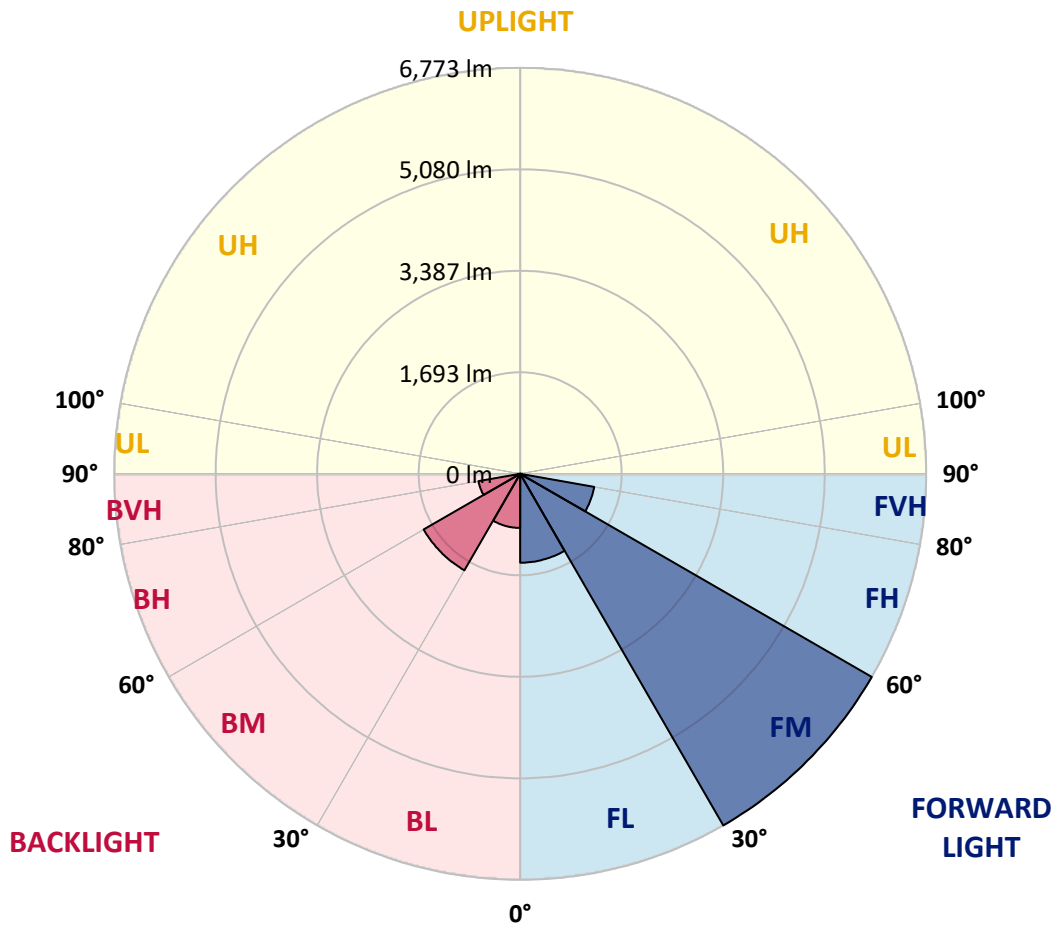
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1482.8	11.4			
FM (30°-60°)	6773.5	51.9			
FH (60°-80°)	1252.9	9.6			G1/1800
FVH (80°-90°)	30.7	0.2			G1/100
BL (0°-30°)	902.7	6.9	B2/1000		
BM (30°-60°)	1859.1	14.2	B2/2500		
BH (60°-80°)	705.9	5.4	B2/1000		G2/1000
BVH (80°-90°)	40.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2496.6	2496.6	2496.6	2496.6	2496.6	2496.6	2496.6	2496.6	2496.6	2496.6	2496.6
2.5°	2750.3	2706.3	2702.9	2691.1	2697.8	2667.4	2635.3	2593.0	2549.0	2576.1	2511.8
5°	2943.1	2883.9	2907.6	2867.0	2872.1	2831.5	2765.5	2716.5	2662.3	2630.2	2584.5
7.5°	3010.8	3015.8	3032.8	3026.0	2992.2	2992.2	2948.2	2861.9	2767.2	2748.6	2672.5
10°	3102.1	3103.8	3085.2	3090.3	3137.6	3115.6	3076.7	3039.5	2917.7	2895.7	2760.4
12.5°	3134.2	3103.8	3134.2	3161.3	3217.1	3247.6	3239.1	3212.0	3081.8	3066.6	2868.7
15°	3139.3	3120.7	3146.1	3207.0	3256.0	3384.6	3448.8	3430.2	3257.7	3259.4	2990.5
17.5°	3115.6	3141.0	3151.2	3203.6	3316.9	3437.0	3623.1	3648.4	3506.4	3484.4	3144.4
20°	3147.8	3129.2	3142.7	3190.1	3340.6	3528.3	3771.9	3939.4	3739.8	3724.6	3303.4
22.5°	3271.2	3245.9	3242.5	3272.9	3381.2	3575.7	3929.2	4230.3	4023.9	4032.4	3501.3
25°	3367.7	3381.2	3369.4	3367.7	3435.3	3646.7	4137.3	4577.0	4409.6	4360.5	3734.7
27.5°	3533.4	3565.6	3541.9	3574.0	3558.8	3753.3	4286.1	4961.0	4825.7	4759.7	3946.1
30°	3763.5	3780.4	3758.4	3758.4	3712.7	3902.2	4421.4	5361.9	5306.1	5216.4	4194.8
32.5°	4066.2	4091.6	4047.6	4022.2	4015.5	4123.7	4665.0	5757.7	5852.4	5776.3	4524.6
35°	4467.1	4451.9	4399.4	4375.8	4284.4	4463.7	5027.0	6212.7	6461.3	6326.0	4923.8
37.5°	4820.6	4796.9	4793.5	4661.6	4683.6	4830.8	5334.8	6557.7	7051.6	7012.7	5345.0
40°	5150.4	5172.4	5207.9	5133.5	5099.7	5262.1	5693.4	6821.6	7510.0	7494.8	5669.7
42.5°	5503.9	5483.7	5546.2	5483.7	5432.9	5662.9	6082.4	7004.3	7912.6	7787.4	6009.7
45°	6016.5	5952.2	5974.2	5979.2	5942.0	6026.6	6243.1	7136.2	8195.0	8181.5	6258.3
47.5°	6444.4	6446.1	6408.9	6380.1	6266.8	6351.4	6422.4	7219.1	8519.8	8497.8	6354.7
50°	6603.4	6581.4	6689.7	6752.2	6759.0	6586.5	6562.8	7264.7	8690.6	8594.2	6451.2
52.5°	6031.7	6052.0	6222.8	6594.9	6809.7	6828.3	6726.9	7359.5	8760.0	8739.7	6529.0
55°	4854.4	4952.5	5233.3	5662.9	6172.1	6731.9	6904.5	7457.6	8797.2	8780.3	6874.0
56°	4267.5	4343.6	4709.0	5045.6	5684.9	6381.8	6792.8	7562.4	8825.9	8905.4	6955.2
57.5°	3435.3	3523.3	3785.4	4167.7	4922.1	5715.4	6485.0	7433.9	8714.3	8744.8	7014.4
60°	2148.1	2156.6	2471.2	2723.2	3254.3	4029.0	4949.2	6468.1	8064.8	8020.8	6300.6
62.5°	1409.0	1410.7	1696.5	1902.9	2144.7	2322.3	2912.7	4289.5	5950.5	5872.7	4485.7
65°	989.5	1011.5	1233.1	1508.8	1606.9	1513.8	1495.2	2261.5	3323.7	3212.0	2410.3
67.5°	723.9	725.6	921.8	1217.8	1359.9	1151.9	935.4	1104.5	1315.9	1312.6	1116.4
70°	478.7	499.0	649.5	910.0	1072.4	925.2	764.5	789.9	837.3	837.3	830.5
72.5°	279.1	297.7	397.5	576.8	602.2	578.5	605.5	676.6	707.0	705.3	696.9
75°	159.0	167.5	189.4	240.2	299.4	353.5	444.8	512.5	543.0	561.6	539.6
77.5°	93.0	98.1	111.6	137.0	155.6	191.1	241.9	289.2	329.8	324.8	328.1
80°	49.1	49.1	62.6	81.2	108.3	135.3	160.7	187.7	209.7	214.8	219.9
82.5°	28.8	30.4	40.6	59.2	77.8	96.4	123.5	142.1	162.4	164.1	167.5
85°	15.2	16.9	25.4	38.9	52.4	59.2	60.9	57.5	62.6	59.2	67.7
87.5°	5.1	5.1	8.5	6.8	6.8	8.5	10.1	10.1	13.5	13.5	13.5
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°	2496.6	2496.6	2496.6	2496.6	2496.6	2496.6	2496.6	2496.6	2496.6	2496.6	2496.6
2.5°	2510.1	2510.1	2481.3	2427.2	2418.8	2396.8	2376.5	2374.8	2359.6	2346.0	2339.3
5°	2557.5	2505.0	2462.7	2413.7	2356.2	2329.1	2298.7	2264.8	2251.3	2264.8	2263.1
7.5°	2611.6	2567.6	2440.7	2349.4	2283.4	2256.4	2222.6	2187.0	2190.4	2190.4	2166.7
10°	2664.0	2604.8	2401.8	2285.1	2188.7	2168.4	2149.8	2163.4	2180.3	2183.7	2168.4
12.5°	2752.0	2618.4	2383.2	2220.9	2160.0	2116.0	2127.8	2165.0	2200.6	2190.4	2202.3
15°	2817.9	2630.2	2298.7	2154.9	2078.8	2099.1	2141.4	2166.7	2225.9	2219.2	2231.0
17.5°	2882.2	2637.0	2215.8	2066.9	2034.8	2090.6	2122.8	2195.5	2214.1	2254.7	2269.9
20°	3014.1	2650.5	2131.2	2012.8	2002.7	2066.9	2122.8	2156.6	2197.2	2232.7	2232.7
22.5°	3081.8	2643.7	2075.4	1941.8	1973.9	2014.5	2065.2	2122.8	2122.8	2156.6	2158.3
25°	3166.4	2616.7	1987.4	1907.9	1931.6	1970.5	2028.0	2007.7	2029.7	2029.7	2056.8
27.5°	3262.8	2559.2	1911.3	1847.1	1894.4	1936.7	1945.2	1931.6	1906.3	1902.9	1892.7
30°	3340.6	2488.1	1855.5	1826.8	1865.7	1889.3	1862.3	1833.5	1789.5	1786.2	1762.5
32.5°	3447.2	2400.2	1786.2	1776.0	1820.0	1821.7	1813.2	1769.2	1705.0	1677.9	1650.8
35°	3626.5	2349.4	1733.7	1749.0	1762.5	1757.4	1742.2	1694.8	1630.5	1618.7	1608.6
37.5°	3758.4	2312.2	1679.6	1698.2	1710.0	1716.8	1671.1	1618.7	1620.4	1596.7	1590.0
40°	3907.2	2288.5	1635.6	1644.1	1645.8	1667.8	1611.9	1586.6	1598.4	1583.2	1593.3
42.5°	4098.4	2295.3	1590.0	1583.2	1615.3	1606.9	1579.8	1546.0	1552.7	1507.1	1513.8
45°	4199.8	2341.0	1562.9	1532.4	1568.0	1566.3	1530.8	1498.6	1458.0	1370.1	1373.5
47.5°	4267.5	2352.8	1498.6	1478.3	1515.5	1537.5	1496.9	1422.5	1365.0	1302.4	1287.2
50°	4336.9	2374.8	1468.2	1425.9	1441.1	1493.5	1442.8	1371.8	1315.9	1260.1	1268.6
52.5°	4397.7	2417.1	1409.0	1346.4	1373.5	1431.0	1403.9	1317.6	1256.7	1211.1	1197.5
55°	4668.4	2511.8	1309.2	1228.0	1292.3	1365.0	1349.8	1244.9	1178.9	1155.3	1151.9
56°	4710.7	2515.2	1256.7	1187.4	1246.6	1343.0	1324.4	1212.8	1153.6	1116.4	1118.0
57.5°	4717.4	2474.6	1182.3	1150.2	1200.9	1310.9	1287.2	1187.4	1106.2	1072.4	1062.2
60°	4150.8	1931.6	1089.3	1069.0	1128.2	1212.8	1204.3	1118.0	1026.7	987.8	1006.4
62.5°	2829.8	1415.7	1016.6	1013.2	1043.6	1126.5	1104.5	1026.7	950.6	925.2	913.4
65°	1647.5	1074.1	945.5	932.0	957.4	1001.3	1016.6	935.4	855.9	839.0	833.9
67.5°	972.6	888.0	854.2	832.2	823.7	850.8	862.6	815.3	735.8	712.1	732.4
70°	813.6	789.9	791.6	754.4	734.1	715.5	705.3	663.0	597.1	566.6	558.2
72.5°	701.9	691.8	685.0	651.2	632.6	590.3	546.3	504.0	455.0	429.6	431.3
75°	536.2	532.8	536.2	519.3	487.1	453.3	412.7	358.6	321.4	289.2	296.0
77.5°	319.7	329.8	334.9	328.1	314.6	284.2	258.8	223.3	187.7	162.4	159.0
80°	219.9	228.3	236.8	228.3	214.8	192.8	165.8	138.7	113.3	99.8	96.4
82.5°	167.5	175.9	181.0	172.5	155.6	131.9	113.3	94.7	74.4	60.9	57.5
85°	60.9	69.3	67.7	81.2	88.0	84.6	72.7	55.8	42.3	30.4	28.8
87.5°	16.9	15.2	16.9	16.9	16.9	15.2	13.5	13.5	13.5	8.5	6.8
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)