

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: P651255

Luminaire Tested: **GALN-SA2D-840-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651255  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2D-840-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13157.4 lumens  
Efficiency: N/A  
Efficacy: 105.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
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

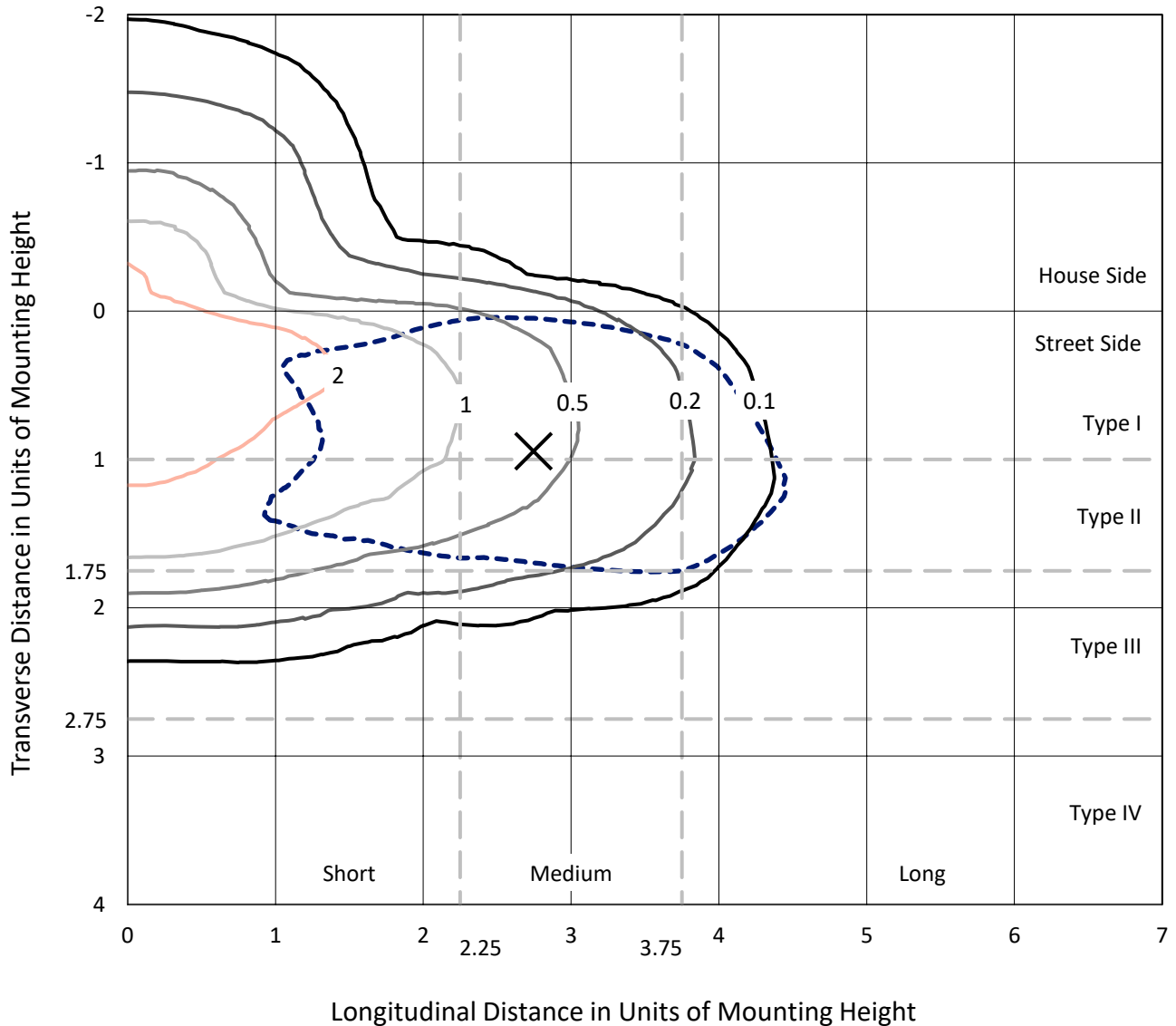




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### Iso-Footcandle Lines of Horizontal Illumination

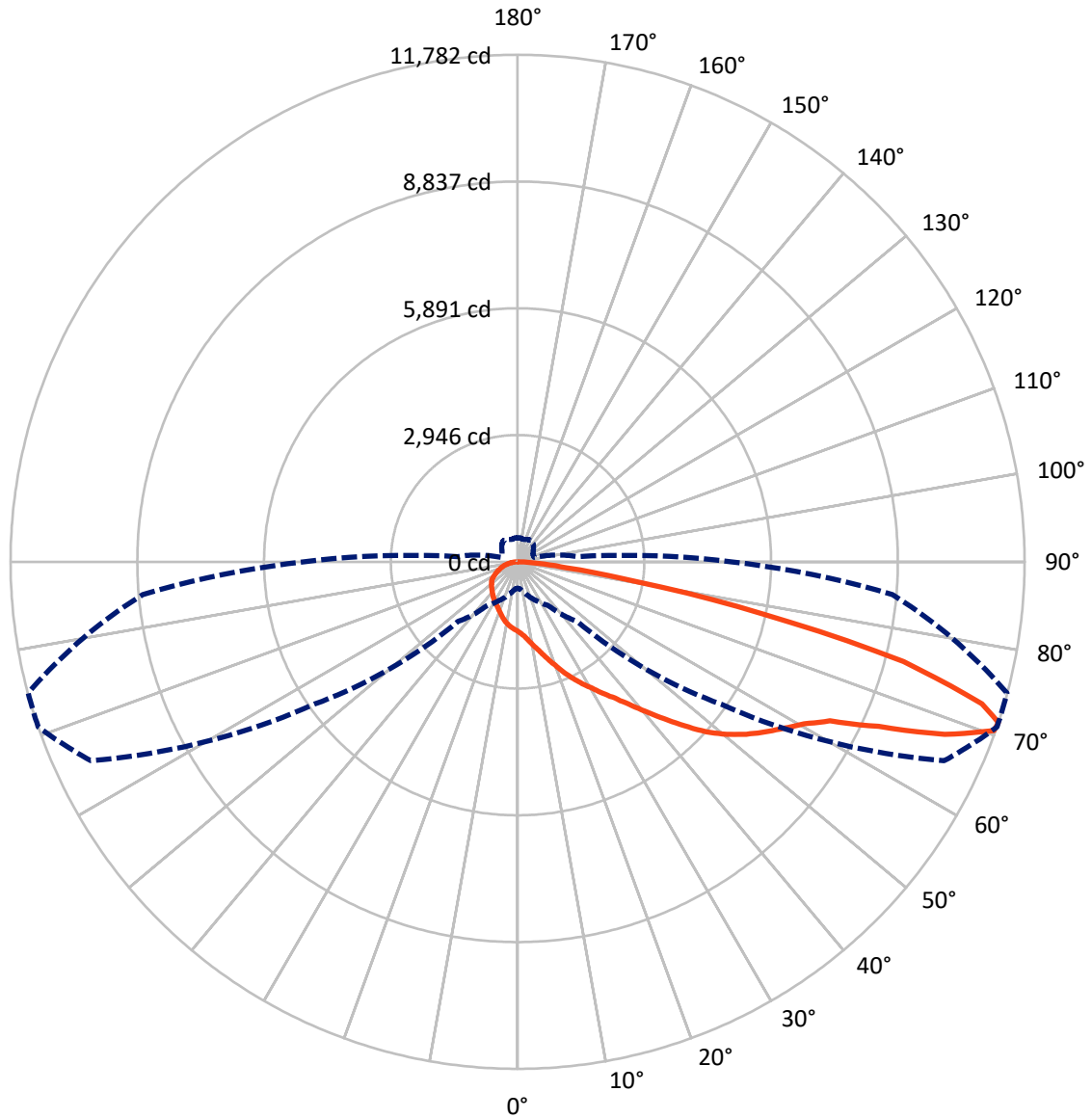
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2366.3	0.0	2366.3
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	10791.1	0.0	10791.1
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	13157.4	0.0	13157.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.1	1.2
10°-20°	526.8	4.0
20°-30°	920.6	7.0
30°-40°	1369.2	10.4
40°-50°	2017.4	15.3
50°-60°	2824.4	21.5
60°-70°	3159.0	24.0
70°-80°	1929.6	14.7
80°-90°	248.2	1.9
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°	13157.4	100.0
0°-180°	13157.4	100.0

**Coefficient of Utilization**

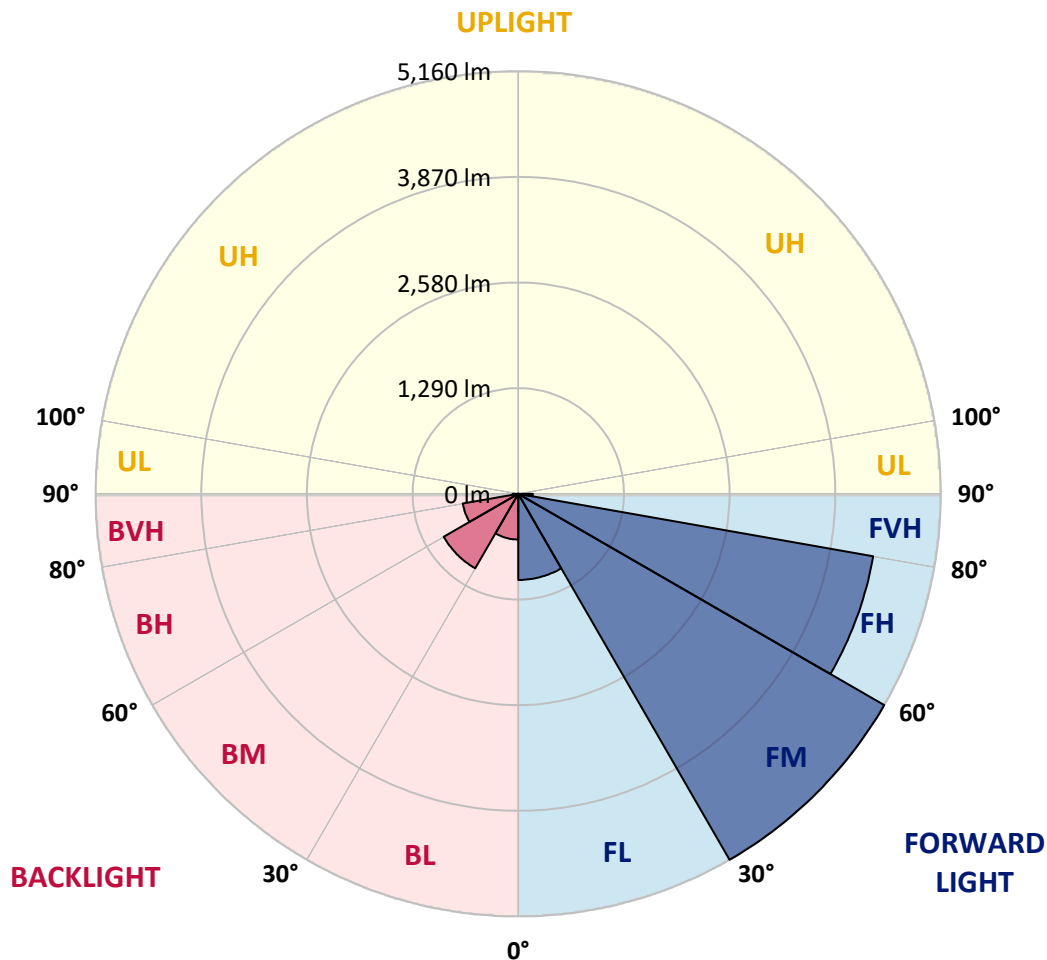


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1051.3	8.0			
FM (30°-60°)	5160.1	39.2			
FH (60°-80°)	4401.1	33.4			G2/5000
FVH (80°-90°)	178.6	1.4			G2/225
BL (0°-30°)	558.2	4.2	B2/1000		
BM (30°-60°)	1051.0	8.0	B2/2500		
BH (60°-80°)	687.5	5.2	B2/1000		G2/1000
BVH (80°-90°)	69.6	0.5			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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	1614.8	1614.8	1614.8	1614.8	1614.8	1614.8	1614.8	1614.8	1614.8	1614.8	1614.8
2.5°	1792.7	1784.0	1784.8	1772.5	1756.6	1739.2	1714.6	1692.9	1675.5	1665.4	1635.8
5°	1986.5	1977.9	1967.0	1940.3	1928.7	1886.0	1831.8	1782.6	1745.0	1724.0	1664.7
7.5°	2143.5	2141.3	2138.4	2123.2	2093.6	2034.2	1988.0	1902.6	1846.9	1807.1	1706.0
10°	2240.3	2244.0	2246.1	2249.0	2236.7	2205.6	2142.0	2034.2	1963.4	1912.8	1759.5
12.5°	2289.5	2293.2	2305.4	2332.2	2348.8	2345.2	2293.2	2187.5	2090.0	2023.4	1816.6
15°	2319.9	2325.7	2347.4	2382.8	2438.5	2474.0	2448.7	2351.0	2244.0	2165.2	1884.6
17.5°	2353.2	2359.7	2383.6	2434.2	2507.2	2583.9	2611.3	2527.5	2411.0	2317.0	1960.5
20°	2372.0	2380.6	2414.6	2481.2	2566.5	2677.8	2769.0	2724.8	2597.6	2493.5	2048.0
22.5°	2402.3	2409.5	2438.5	2509.4	2611.3	2750.9	2926.6	2917.3	2805.2	2670.6	2144.1
25°	2484.8	2496.3	2510.8	2553.4	2651.8	2825.4	3057.5	3122.6	3006.2	2855.8	2232.4
27.5°	2640.2	2649.7	2648.9	2654.7	2710.4	2889.8	3171.1	3325.8	3205.8	3043.1	2317.7
30°	2817.4	2821.1	2823.9	2811.0	2823.2	2955.5	3275.2	3526.8	3406.8	3235.4	2392.2
32.5°	3032.9	3040.1	3015.6	2982.4	2972.2	3053.2	3361.2	3727.9	3644.7	3430.7	2466.0
35°	3287.5	3306.3	3256.4	3197.8	3156.6	3193.4	3476.9	3933.3	3888.4	3680.1	2563.6
37.5°	3578.2	3601.3	3555.1	3440.1	3381.5	3391.6	3628.1	4187.1	4196.5	3964.4	2708.9
40°	3816.1	3846.5	3847.9	3685.3	3596.3	3607.8	3819.7	4460.4	4568.2	4315.8	2880.3
42.5°	3973.1	4002.7	4033.8	3938.3	3845.1	3910.8	4043.2	4756.9	4986.2	4742.5	3119.7
45°	4145.1	4171.9	4189.3	4145.9	4093.8	4264.5	4312.9	5072.2	5431.7	5219.1	3381.5
47.5°	4344.8	4374.4	4391.0	4349.8	4330.3	4574.7	4603.6	5366.6	5907.5	5681.9	3670.8
50°	4610.9	4633.3	4624.6	4598.6	4594.2	4812.6	4882.8	5642.1	6300.2	6180.1	3970.9
52.5°	4942.1	4968.8	4978.2	4941.4	4924.7	4982.6	5107.6	5893.1	6657.4	6608.2	4291.2
55°	5142.4	5185.0	5328.2	5386.1	5425.9	5202.4	5349.9	6170.0	6977.8	7059.5	4635.4
57.5°	4885.7	4940.6	5261.0	5550.3	5924.1	5752.0	5693.4	6459.3	7298.1	7497.0	5047.7
60°	4259.4	4271.7	4684.6	5217.6	5969.7	6458.5	6410.1	6919.2	7645.3	7938.1	5590.7
62.5°	2954.9	2980.8	3469.0	4319.5	5407.0	6713.1	7629.3	7713.2	8142.8	8598.4	6387.0
65°	1523.7	1489.7	1934.5	2714.7	4076.5	6108.5	8617.1	9173.3	9221.7	9631.0	7507.9
67.5°	938.0	953.1	1161.4	1585.2	2410.3	4439.5	8513.8	10957.3	10702.1	10898.8	8548.5
70°	704.3	723.2	866.3	1084.7	1469.5	2538.3	6846.9	11389.7	11746.3	11695.7	8865.2
71°	612.5	632.0	781.0	987.1	1234.4	1959.0	5768.7	10937.0	11782.4	11773.7	8745.9
72.5°	522.1	534.5	650.8	836.0	1040.7	1373.3	4333.9	9808.9	11279.8	11568.4	8319.9
75°	410.1	419.4	471.5	637.8	819.3	843.2	2325.7	7353.8	9264.4	9814.0	6926.4
77.5°	334.1	340.6	367.3	473.7	632.0	597.4	1220.0	4786.6	5804.1	6357.3	4080.1
80°	265.4	272.7	288.5	321.1	473.7	426.0	582.1	2425.4	2803.7	2797.9	1628.6
82.5°	206.1	208.2	227.1	235.7	324.0	302.3	315.3	1026.9	1137.5	1175.1	587.9
85°	130.2	136.7	201.0	180.8	193.8	177.2	155.5	407.9	502.6	495.3	235.1
87.5°	39.8	42.0	68.0	76.6	86.0	77.4	57.1	120.0	146.8	159.1	58.6
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°	1614.8	1614.8	1614.8	1614.8	1614.8	1614.8	1614.8	1614.8	1614.8	1614.8	1614.8
2.5°	1624.2	1616.2	1588.1	1564.9	1543.2	1519.4	1499.1	1493.4	1488.2	1486.1	1485.4
5°	1639.4	1615.6	1559.9	1514.3	1478.1	1444.8	1423.9	1414.5	1405.1	1405.1	1408.0
7.5°	1661.1	1617.7	1531.6	1463.7	1418.1	1387.1	1371.8	1370.4	1372.6	1374.7	1375.5
10°	1684.9	1616.2	1490.4	1405.8	1365.4	1350.9	1351.6	1363.8	1375.5	1384.1	1385.5
12.5°	1708.1	1607.6	1442.0	1351.6	1325.6	1328.4	1348.7	1376.2	1398.6	1410.9	1411.6
15°	1734.1	1593.9	1383.4	1300.3	1291.5	1314.0	1351.6	1393.5	1427.5	1447.8	1450.0
17.5°	1755.8	1570.7	1322.0	1250.3	1261.2	1302.4	1354.5	1408.7	1450.0	1475.3	1479.6
20°	1780.4	1541.0	1258.3	1202.6	1233.7	1289.4	1348.7	1407.2	1450.0	1474.5	1480.3
22.5°	1799.9	1499.1	1197.6	1163.5	1209.1	1273.5	1329.2	1376.2	1410.9	1423.9	1432.6
25°	1807.9	1446.4	1140.4	1131.7	1189.6	1247.5	1285.0	1311.8	1322.6	1321.2	1324.8
27.5°	1803.5	1385.5	1091.3	1106.4	1165.0	1206.9	1225.8	1223.6	1204.1	1186.0	1194.6
30°	1785.4	1313.2	1050.0	1080.4	1133.2	1156.4	1153.4	1125.3	1088.3	1054.4	1056.5
32.5°	1753.0	1235.2	1011.7	1050.7	1088.3	1098.5	1078.9	1042.1	989.3	945.2	938.6
35°	1725.5	1160.7	977.7	1016.8	1043.5	1038.5	1019.6	971.9	924.2	885.2	878.7
37.5°	1721.1	1097.0	945.2	978.4	993.6	986.4	963.3	922.7	905.4	875.7	872.1
40°	1744.2	1052.2	911.9	938.0	945.2	939.4	914.1	891.0	906.9	899.6	899.6
42.5°	1807.1	1028.4	882.3	897.4	903.2	907.6	889.5	869.9	889.5	856.2	845.4
45°	1907.0	1029.0	855.5	857.7	875.1	890.2	877.9	849.0	838.9	772.4	759.3
47.5°	2053.8	1053.6	833.8	820.1	851.2	876.5	859.1	817.2	772.4	728.2	720.2
50°	2225.2	1097.8	814.3	781.0	819.3	859.1	846.1	796.9	750.7	723.8	718.8
52.5°	2415.4	1153.4	790.5	737.6	780.3	851.2	849.0	794.0	730.4	712.3	708.0
55°	2650.4	1208.4	760.8	687.0	745.5	844.6	841.0	770.2	726.0	713.0	711.6
57.5°	2923.7	1287.9	718.1	635.6	705.8	817.9	810.0	755.7	711.6	702.2	701.5
60°	3364.2	1411.6	657.3	588.6	665.3	770.9	781.0	731.1	688.4	686.3	685.6
62.5°	3943.4	1585.2	594.4	540.2	618.3	710.1	739.1	697.9	663.9	674.7	676.2
65°	4743.2	1731.3	529.3	499.0	566.2	651.6	699.3	666.7	636.4	657.3	657.3
67.5°	5264.6	1734.1	470.0	456.3	513.4	602.4	657.3	629.9	601.0	636.4	637.8
70°	5156.2	1519.4	420.9	411.5	462.1	549.6	611.1	589.4	556.1	587.9	576.3
71°	4981.2	1400.0	401.3	394.1	441.9	524.3	589.4	571.3	538.1	559.0	552.5
72.5°	4701.9	1215.7	369.5	371.0	411.5	492.5	559.0	540.2	507.0	518.5	516.4
75°	3974.5	1061.6	316.0	322.5	353.6	438.2	498.3	483.8	449.8	449.8	447.7
77.5°	2484.8	741.9	262.5	266.1	300.2	375.3	428.1	415.8	383.2	372.4	369.5
80°	927.1	383.2	205.4	209.7	230.7	295.8	354.3	342.8	309.5	297.2	285.7
82.5°	350.7	192.3	151.1	147.5	170.0	225.6	277.7	264.0	237.9	208.2	199.6
85°	132.4	95.5	92.6	89.7	99.8	133.8	172.2	169.2	141.7	120.8	118.6
87.5°	34.7	31.1	36.2	26.7	28.2	25.3	26.1	10.8	5.0	2.2	1.4
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)