

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: P527622

Luminaire Tested: **GALN-SA2C-827-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527622  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-827-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9073 lumens  
Efficiency: N/A  
Efficacy: 84.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

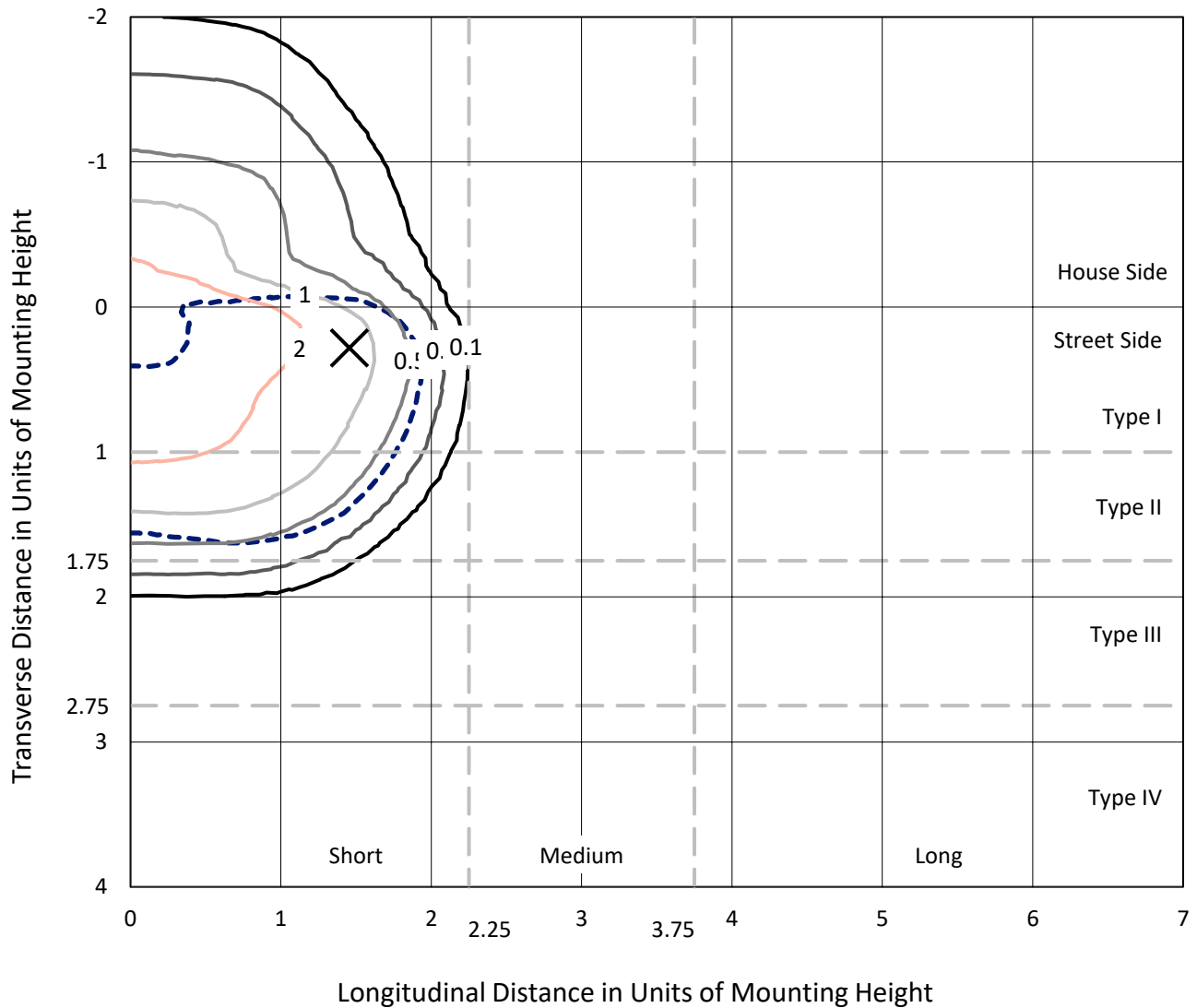
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

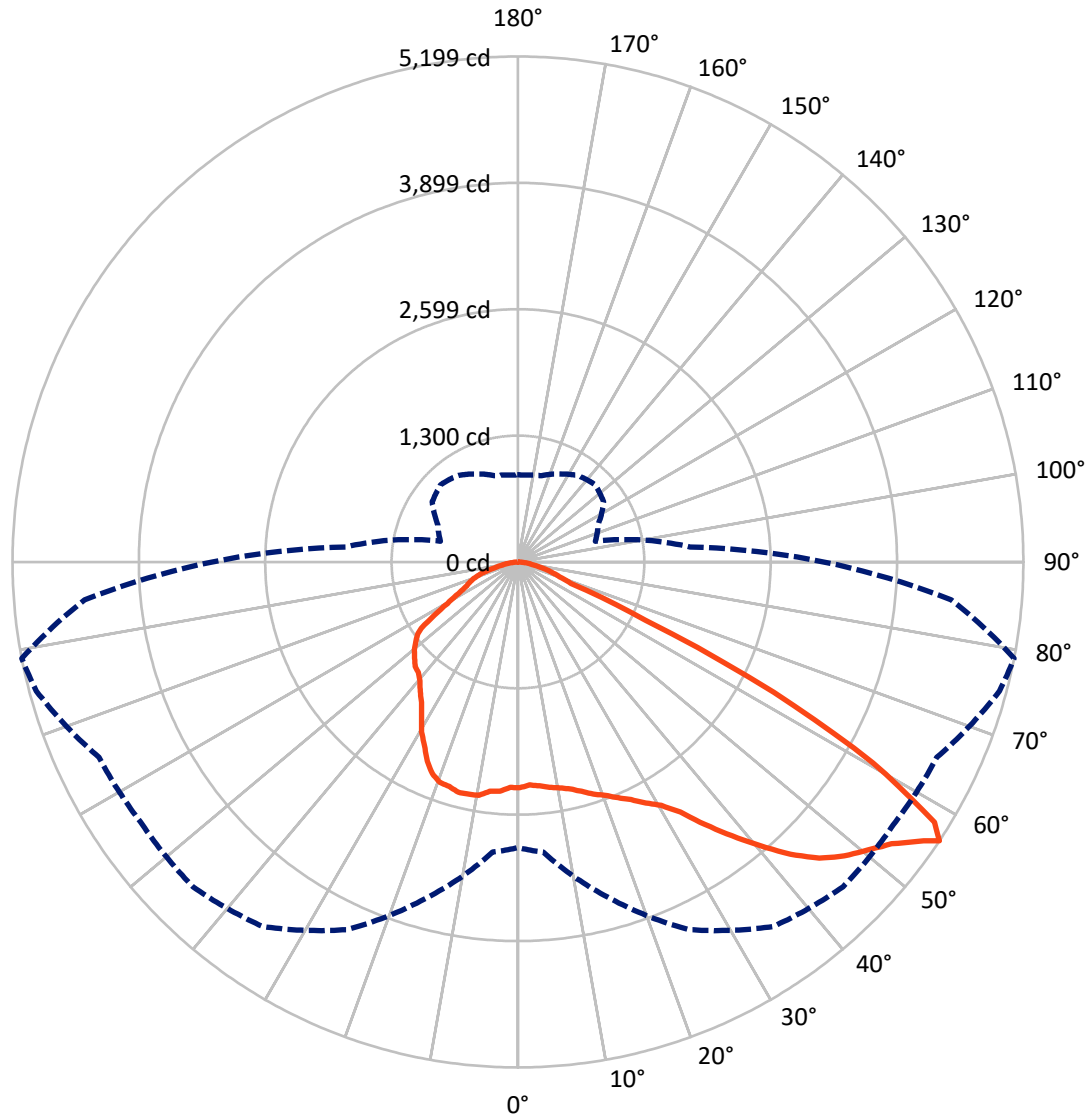
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2679.4	0.0	2679.4
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	6393.6	0.0	6393.6
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	9073.0	0.0	9073.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	211.1	2.3
10°-20°	577.6	6.4
20°-30°	988.2	10.9
30°-40°	1514.5	16.7
40°-50°	2046.9	22.6
50°-60°	2350.9	25.9
60°-70°	1071.6	11.8
70°-80°	264.2	2.9
80°-90°	48.0	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°	9073.0	100.0
0°-180°	9073.0	100.0

**Coefficient of Utilization**



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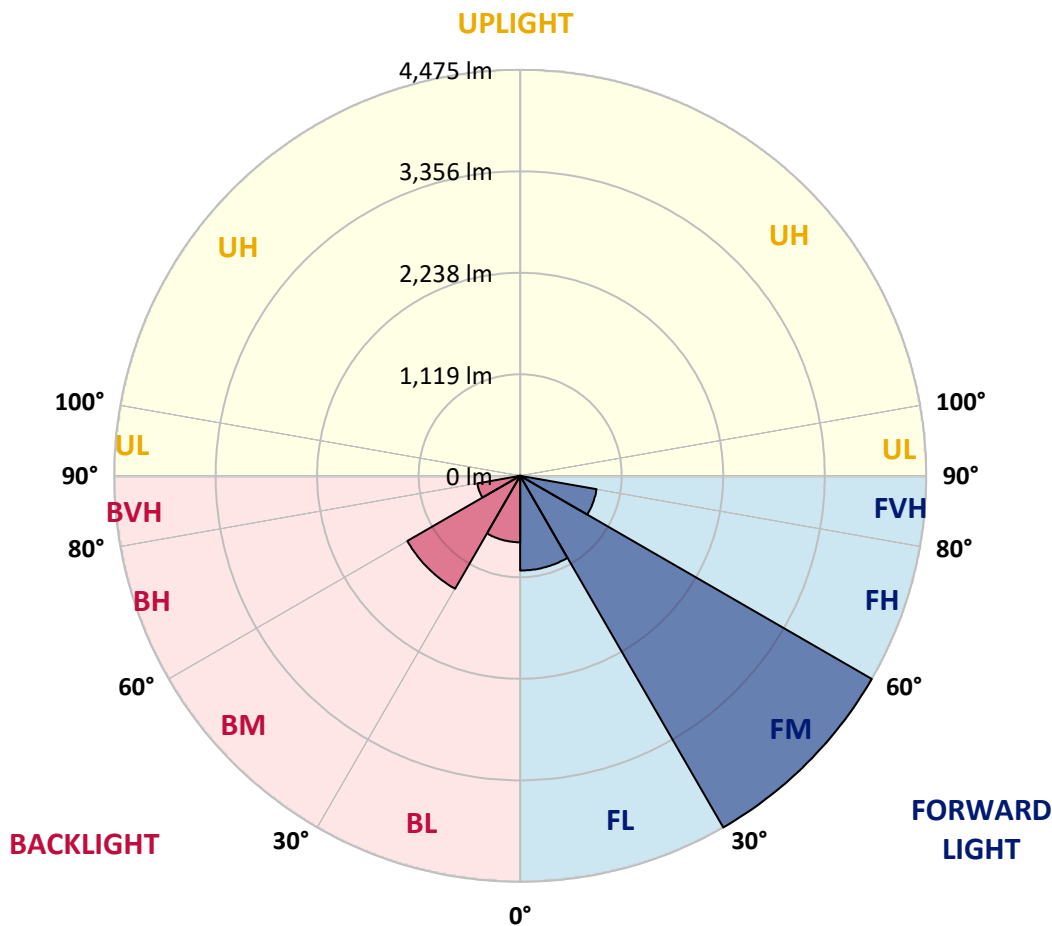
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1043.9	11.5			
FM (30°-60°)	4475.1	49.3			
FH (60°-80°)	855.4	9.4			G1/1800
FVH (80°-90°)	19.2	0.2			G1/100
BL (0°-30°)	732.9	8.1	B2/1000		
BM (30°-60°)	1437.2	15.8	B2/2500		
BH (60°-80°)	480.4	5.3	B1/500		G1/500
BVH (80°-90°)	28.8	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2321.4	2321.4	2321.4	2321.4	2321.4	2321.4	2321.4	2321.4	2321.4	2321.4	2321.4
2.5°	2208.4	2202.8	2216.3	2226.5	2238.9	2254.7	2262.7	2267.2	2306.7	2296.6	2327.1
5°	2160.9	2146.2	2156.4	2164.3	2185.8	2205.0	2226.5	2260.4	2296.6	2312.4	2349.7
7.5°	2119.1	2111.2	2108.9	2114.6	2144.0	2168.8	2206.1	2255.9	2314.6	2340.6	2362.1
10°	2050.2	2038.9	2055.8	2093.1	2101.0	2153.0	2196.0	2267.2	2318.0	2363.2	2426.5
12.5°	2019.7	2008.4	2011.7	2033.2	2088.6	2138.3	2189.2	2269.4	2376.8	2394.9	2479.6
15°	2068.3	2057.0	2060.3	2054.7	2107.8	2133.8	2214.1	2314.6	2417.5	2448.0	2538.4
17.5°	2179.0	2180.1	2165.5	2153.0	2140.6	2196.0	2251.3	2341.8	2433.3	2510.2	2578.0
20°	2390.4	2353.1	2323.7	2253.6	2234.4	2258.1	2328.2	2415.2	2497.7	2561.0	2637.9
22.5°	2553.1	2556.5	2514.7	2399.4	2357.6	2367.8	2427.7	2498.9	2589.3	2634.5	2722.6
25°	2789.3	2765.6	2720.4	2628.8	2535.0	2542.9	2587.0	2651.4	2676.3	2707.9	2804.0
27.5°	3005.2	3012.0	2922.7	2836.8	2720.4	2697.8	2776.9	2788.2	2746.4	2806.3	2839.1
30°	3224.4	3218.8	3160.0	3059.4	2945.3	2949.8	2984.8	2929.5	2871.8	2904.6	2927.2
32.5°	3451.6	3387.2	3384.9	3294.5	3207.5	3165.7	3122.7	3149.9	3060.6	3067.4	3045.9
35°	3633.6	3642.6	3590.6	3526.2	3483.3	3409.8	3292.3	3340.9	3323.9	3316.0	3223.3
37.5°	3765.8	3730.8	3756.8	3735.3	3694.6	3603.1	3481.0	3527.3	3535.3	3573.7	3466.3
40°	3874.3	3859.6	3928.6	3939.9	3911.6	3713.8	3494.6	3632.4	3751.1	3834.8	3707.0
42.5°	3926.3	3957.9	4030.3	4117.3	4054.0	3842.7	3564.6	3712.7	3977.2	4109.4	3935.3
45°	3996.4	3955.7	4063.1	4222.4	4223.5	3951.2	3632.4	3821.2	4153.5	4345.6	4091.3
47.5°	3925.2	3945.5	4056.3	4258.6	4310.6	4065.3	3815.5	3974.9	4347.9	4518.5	4236.0
50°	3765.8	3806.5	4008.8	4219.0	4376.1	4186.2	4025.8	4141.0	4527.6	4657.5	4259.7
52.5°	3599.7	3622.3	3938.7	4249.5	4405.5	4342.2	4307.2	4370.5	4746.8	4814.6	4289.1
55°	3147.6	3255.0	3707.0	4236.0	4549.0	4623.6	4596.5	4689.2	4995.5	5063.3	4449.6
56°	2938.5	2995.0	3568.0	4172.7	4577.3	4726.5	4712.9	4754.7	5127.7	5198.9	4474.4
57.5°	2552.0	2556.5	3042.5	3892.4	4471.1	4757.0	4743.4	4776.2	5101.7	5053.1	4256.3
60°	1597.0	1667.0	2070.5	2993.9	3802.0	4413.4	4490.3	4226.9	4301.5	4198.7	3311.5
62.5°	827.3	817.1	1085.0	1750.7	2523.7	3160.0	3231.2	3218.8	3103.5	2953.2	2163.2
65°	412.5	414.8	567.4	866.9	1292.9	1654.6	1853.5	1875.0	1568.7	1443.3	1026.2
67.5°	299.5	310.8	408.0	530.1	609.2	681.5	835.2	819.4	620.5	590.0	547.0
70°	232.8	243.0	331.1	404.6	367.3	367.3	400.1	413.7	441.9	454.3	469.0
72.5°	169.5	177.4	253.2	279.2	240.7	258.8	299.5	331.1	360.5	365.1	382.0
75°	116.4	123.2	166.1	153.7	144.7	178.6	219.3	248.6	270.1	281.4	291.6
77.5°	75.7	78.0	94.9	80.2	92.7	115.3	142.4	167.3	188.7	197.8	200.0
80°	33.9	37.3	40.7	50.9	64.4	82.5	101.7	122.1	135.6	139.0	145.8
82.5°	19.2	19.2	24.9	36.2	47.5	59.9	73.5	88.2	104.0	107.4	106.2
85°	10.2	10.2	14.7	21.5	29.4	35.0	33.9	35.0	37.3	42.9	41.8
87.5°	3.4	3.4	4.5	4.5	5.7	6.8	5.7	7.9	10.2	10.2	10.2
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°	2321.4	2321.4	2321.4	2321.4	2321.4	2321.4	2321.4	2321.4	2321.4	2321.4	2321.4
2.5°	2318.0	2328.2	2314.6	2344.0	2344.0	2338.4	2310.1	2319.2	2325.9	2325.9	2331.6
5°	2362.1	2358.7	2367.8	2332.7	2311.2	2303.3	2257.0	2234.4	2215.2	2214.1	2197.1
7.5°	2387.0	2377.9	2374.5	2348.5	2253.6	2196.0	2096.5	2038.9	2026.4	1982.4	1999.3
10°	2426.5	2443.5	2426.5	2285.3	2153.0	2020.8	1923.6	1834.3	1799.3	1771.0	1754.1
12.5°	2507.9	2500.0	2401.7	2210.7	2025.3	1868.2	1723.5	1629.7	1594.7	1569.8	1567.6
15°	2576.8	2537.3	2387.0	2093.1	1826.4	1659.1	1540.5	1473.8	1458.0	1460.2	1470.4
17.5°	2600.6	2573.5	2310.1	1971.1	1678.3	1481.7	1426.3	1416.1	1430.8	1447.8	1452.3
20°	2637.9	2594.9	2278.5	1804.9	1495.2	1370.9	1367.5	1403.7	1430.8	1455.7	1459.1
22.5°	2715.9	2607.4	2175.6	1647.8	1369.8	1338.2	1370.9	1401.4	1443.3	1463.6	1445.5
25°	2738.5	2580.2	2031.0	1459.1	1290.7	1317.8	1352.8	1394.7	1424.0	1435.3	1443.3
27.5°	2757.7	2538.4	1835.4	1333.6	1265.8	1316.7	1352.8	1387.9	1403.7	1413.9	1422.9
30°	2811.9	2526.0	1665.9	1250.0	1250.0	1294.1	1340.4	1349.5	1370.9	1383.4	1399.2
32.5°	2839.1	2440.1	1491.9	1196.9	1234.2	1305.4	1308.8	1325.7	1326.8	1337.0	1320.1
35°	2910.3	2379.1	1330.2	1158.5	1241.0	1294.1	1311.0	1300.9	1245.5	1218.4	1224.0
37.5°	2962.2	2348.5	1213.8	1153.9	1242.1	1306.5	1315.5	1238.7	1181.1	1135.8	1147.1
40°	3102.4	2272.8	1125.7	1146.0	1252.3	1320.1	1295.2	1211.6	1107.6	1061.3	1053.3
42.5°	3209.8	2218.6	1070.3	1137.0	1260.2	1339.3	1285.0	1157.3	1051.1	1008.1	1019.4
45°	3334.1	2206.1	1040.9	1139.2	1273.7	1349.5	1272.6	1115.5	1002.5	985.5	982.1
47.5°	3378.2	2116.9	1009.3	1120.0	1270.3	1346.1	1230.8	1083.9	984.4	986.7	995.7
50°	3304.7	2025.3	985.5	1080.5	1247.7	1315.5	1165.2	1042.0	974.2	1002.5	1018.3
52.5°	3210.9	1931.5	936.9	1027.3	1201.4	1268.1	1134.7	1039.8	964.1	955.0	958.4
55°	3239.1	1854.7	869.1	955.0	1126.8	1179.9	1100.8	1018.3	939.2	905.3	916.6
56°	3147.6	1775.5	825.0	909.8	1075.9	1123.4	1083.9	999.1	918.8	896.2	896.2
57.5°	2888.8	1509.9	767.4	837.5	968.6	1025.1	1051.1	987.8	896.2	856.7	857.8
60°	2130.4	1073.7	688.3	738.0	802.4	847.6	968.6	956.1	839.7	812.6	802.4
62.5°	1313.3	784.4	631.8	651.0	683.8	721.1	845.4	865.7	779.8	750.4	743.7
65°	735.8	600.1	588.8	596.7	612.6	631.8	701.9	747.1	688.3	643.1	640.8
67.5°	538.0	536.8	545.9	552.7	559.4	559.4	576.4	594.5	586.6	550.4	547.0
70°	478.1	481.5	488.2	489.4	491.6	483.7	470.2	464.5	473.6	450.9	446.4
72.5°	394.4	405.7	413.7	414.8	402.3	392.2	374.1	354.9	348.1	343.6	342.4
75°	302.9	310.8	314.2	313.1	308.5	293.9	272.4	253.2	240.7	227.2	234.0
77.5°	204.6	215.9	221.5	221.5	214.7	192.1	182.0	167.3	154.8	140.1	142.4
80°	143.5	151.4	160.5	159.4	148.1	136.8	122.1	108.5	98.3	87.0	85.9
82.5°	107.4	111.9	116.4	114.1	106.2	94.9	84.8	72.3	61.0	53.1	53.1
85°	38.4	41.8	50.9	53.1	57.6	57.6	48.6	40.7	32.8	27.1	27.1
87.5°	11.3	11.3	12.4	12.4	11.3	12.4	10.2	11.3	12.4	7.9	7.9
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)