

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: P528318

Luminaire Tested: **GALN-SA3B-827-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528318
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-SA3B-827-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 800mA 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: 10474 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

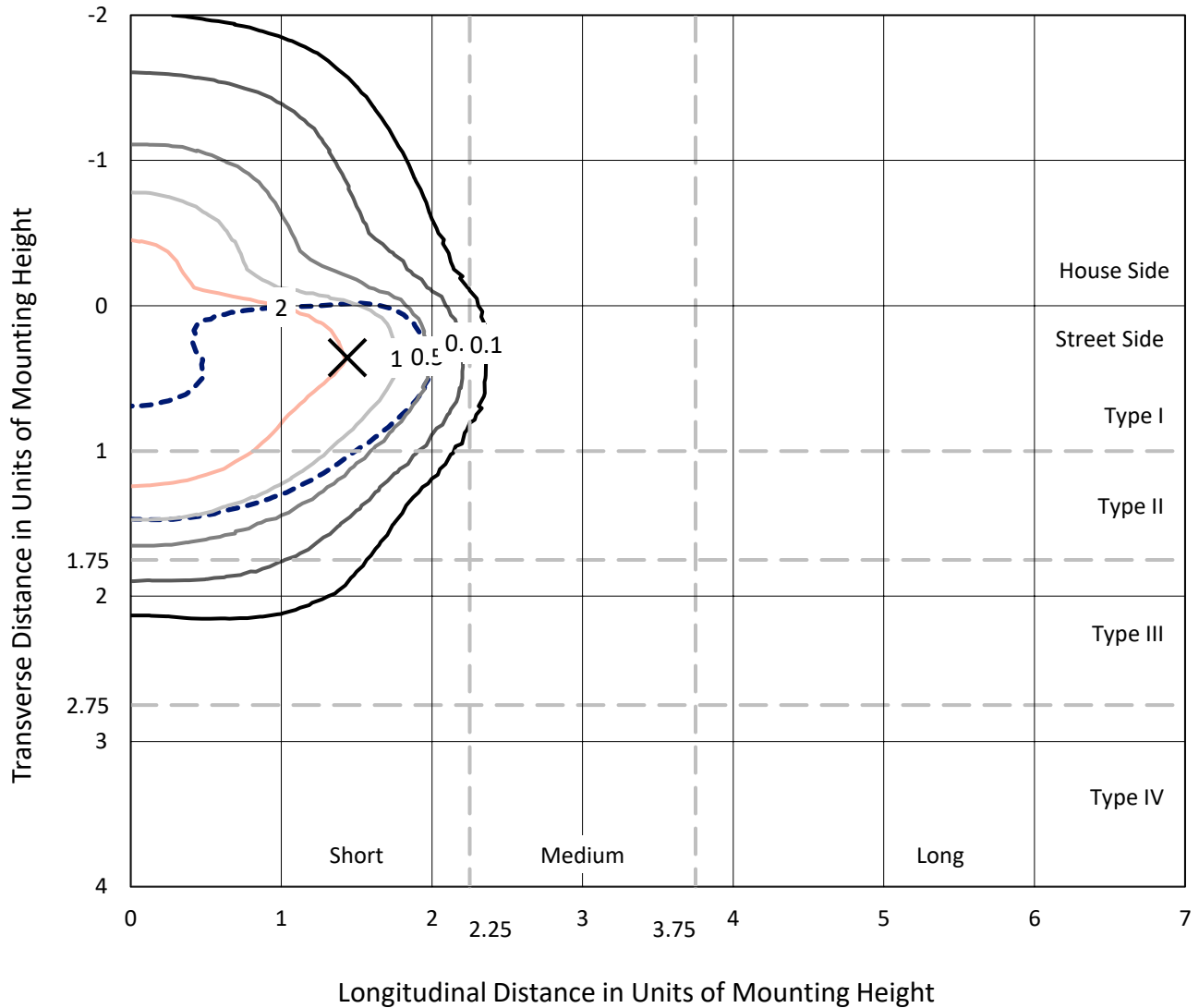
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

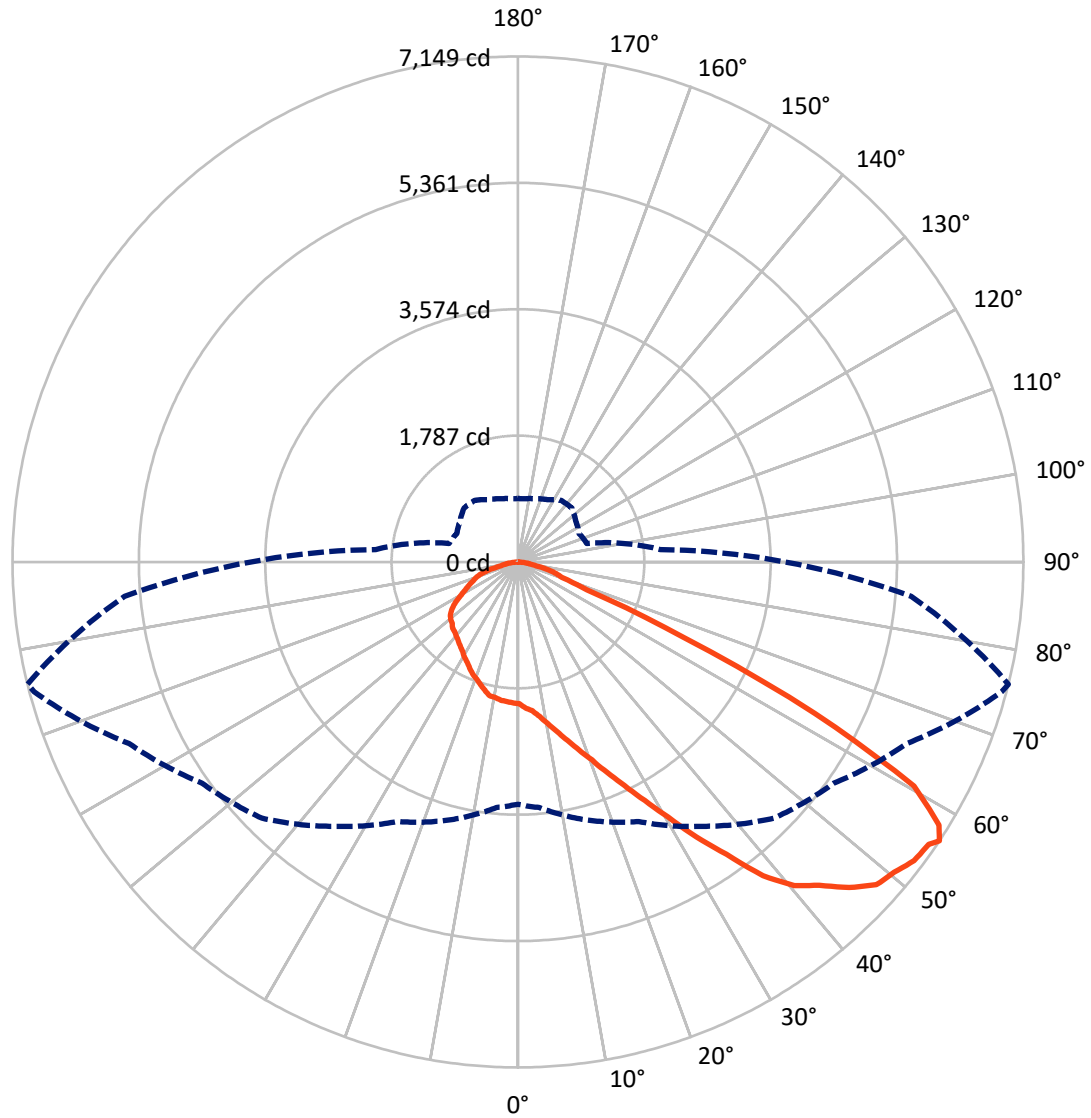
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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
House Side	Lumens	2816.1	0.0	2816.1
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	7657.8	0.0	7657.8
	% Fixture	73.1	0.0	73.1
Total	Lumens	10474.0	0.0	10474.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.7	1.9
10°-20°	624.3	6.0
20°-30°	1091.8	10.4
30°-40°	1709.5	16.3
40°-50°	2486.9	23.7
50°-60°	2733.2	26.1
60°-70°	1220.0	11.6
70°-80°	352.4	3.4
80°-90°	57.2	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°	10474.0	100.0
0°-180°	10474.0	100.0

Coefficient of Utilization

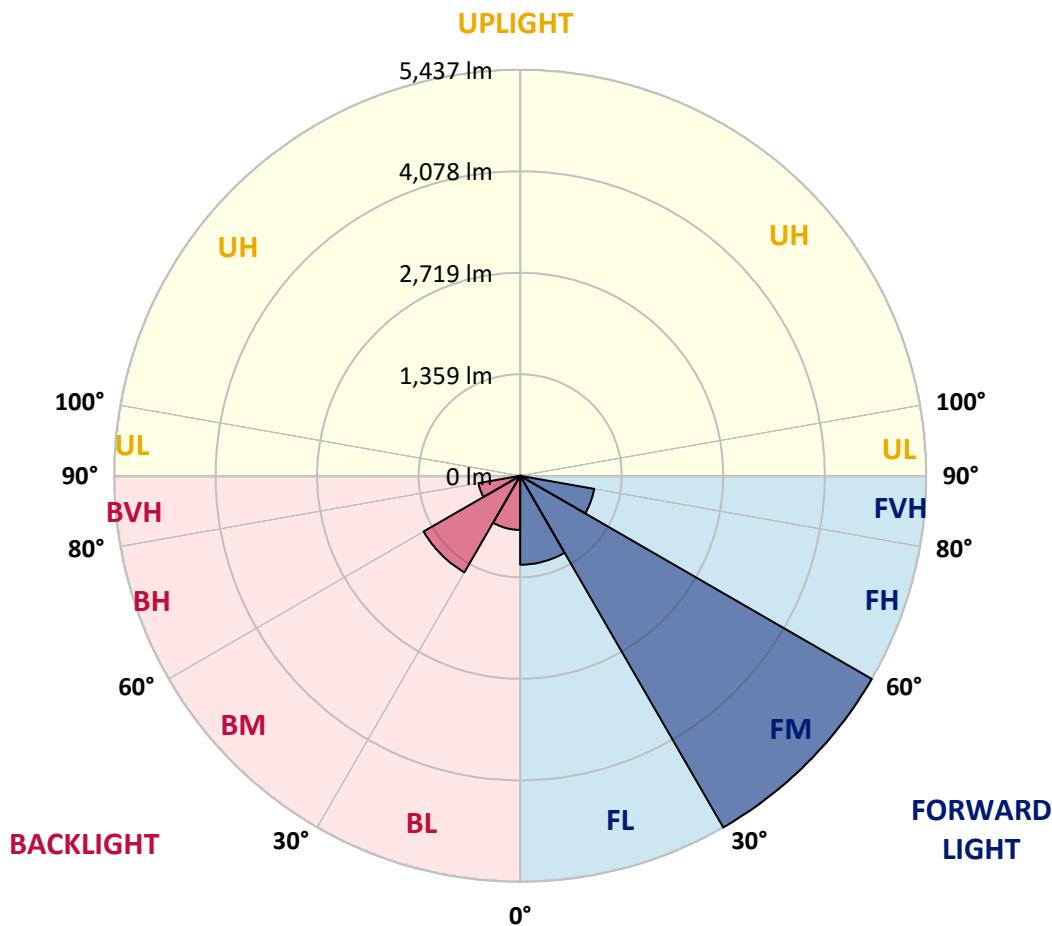


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1190.3	11.4			
FM (30°-60°)	5437.2	51.9			
FH (60°-80°)	1005.7	9.6			G1/1800
FVH (80°-90°)	24.6	0.2			G1/100
BL (0°-30°)	724.6	6.9	B2/1000		
BM (30°-60°)	1492.3	14.2	B2/2500		
BH (60°-80°)	566.6	5.4	B2/1000		G2/1000
BVH (80°-90°)	32.6	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°	2004.1	2004.1	2004.1	2004.1	2004.1	2004.1	2004.1	2004.1	2004.1	2004.1	2004.1
2.5°	2207.7	2172.4	2169.7	2160.2	2165.6	2141.2	2115.4	2081.5	2046.2	2067.9	2016.3
5°	2362.5	2315.0	2334.0	2301.4	2305.5	2272.9	2220.0	2180.6	2137.1	2111.3	2074.7
7.5°	2416.8	2420.9	2434.5	2429.0	2401.9	2401.9	2366.6	2297.3	2221.3	2206.4	2145.3
10°	2490.1	2491.5	2476.6	2480.6	2518.7	2501.0	2469.8	2439.9	2342.1	2324.5	2215.9
12.5°	2515.9	2491.5	2515.9	2537.7	2582.5	2606.9	2600.1	2578.4	2473.9	2461.6	2302.8
15°	2520.0	2505.1	2525.4	2574.3	2613.7	2716.9	2768.5	2753.6	2615.1	2616.4	2400.5
17.5°	2501.0	2521.4	2529.5	2571.6	2662.6	2759.0	2908.3	2928.7	2814.7	2797.0	2524.1
20°	2526.8	2511.9	2522.7	2560.8	2681.6	2832.3	3027.8	3162.2	3002.0	2989.8	2651.7
22.5°	2625.9	2605.6	2602.8	2627.3	2714.2	2870.3	3154.1	3395.8	3230.1	3236.9	2810.6
25°	2703.3	2714.2	2704.7	2703.3	2757.6	2927.3	3321.1	3674.1	3539.7	3500.3	2998.0
27.5°	2836.4	2862.2	2843.2	2869.0	2856.7	3012.9	3440.6	3982.3	3873.7	3820.8	3167.7
30°	3021.0	3034.6	3017.0	3017.0	2980.3	3132.4	3549.2	4304.1	4259.3	4187.4	3367.3
32.5°	3264.1	3284.4	3249.1	3228.8	3223.3	3310.2	3744.7	4621.8	4697.9	4636.8	3632.0
35°	3585.9	3573.6	3531.6	3512.5	3439.2	3583.1	4035.3	4987.1	5186.7	5078.1	3952.5
37.5°	3869.6	3850.6	3847.9	3742.0	3759.7	3877.8	4282.4	5264.1	5660.5	5629.3	4290.5
40°	4134.4	4152.1	4180.6	4120.8	4093.7	4224.0	4570.2	5475.9	6028.5	6016.3	4551.2
42.5°	4418.2	4401.9	4452.1	4401.9	4361.2	4545.8	4882.5	5622.5	6351.6	6251.2	4824.1
45°	4829.6	4778.0	4795.6	4799.7	4769.8	4837.7	5011.5	5728.4	6578.4	6567.5	5023.7
47.5°	5173.1	5174.5	5144.6	5121.5	5030.5	5098.4	5155.4	5795.0	6839.1	6821.4	5101.1
50°	5300.7	5283.1	5370.0	5420.2	5425.6	5287.1	5268.1	5831.6	6976.2	6898.8	5178.5
52.5°	4841.8	4858.1	4995.2	5293.9	5466.4	5481.3	5399.8	5907.6	7031.9	7015.6	5241.0
55°	3896.8	3975.5	4200.9	4545.8	4954.5	5403.9	5542.4	5986.4	7061.8	7048.2	5518.0
56°	3425.6	3486.7	3780.0	4050.2	4563.5	5122.9	5452.8	6070.6	7084.8	7148.6	5583.1
57.5°	2757.6	2828.2	3038.7	3345.5	3951.1	4587.9	5205.7	5967.4	6995.2	7019.7	5630.7
60°	1724.4	1731.2	1983.7	2186.0	2612.3	3234.2	3972.8	5192.1	6473.8	6438.5	5057.7
62.5°	1131.0	1132.4	1361.8	1527.5	1721.6	1864.2	2338.1	3443.3	4776.6	4714.2	3600.8
65°	794.3	811.9	989.8	1211.1	1289.9	1215.2	1200.3	1815.3	2668.0	2578.4	1934.8
67.5°	581.1	582.5	740.0	977.6	1091.6	924.6	750.8	886.6	1056.3	1053.6	896.1
70°	384.2	400.5	521.4	730.5	860.8	742.7	613.7	634.1	672.1	672.1	666.7
72.5°	224.0	239.0	319.1	463.0	483.4	464.4	486.1	543.1	567.5	566.2	559.4
75°	127.6	134.4	152.1	192.8	240.3	283.8	357.1	411.4	435.8	450.8	433.1
77.5°	74.7	78.8	89.6	110.0	124.9	153.4	194.2	232.2	264.8	260.7	263.4
80°	39.4	39.4	50.2	65.2	86.9	108.6	129.0	150.7	168.4	172.4	176.5
82.5°	23.1	24.4	32.6	47.5	62.5	77.4	99.1	114.1	130.3	131.7	134.4
85°	12.2	13.6	20.4	31.2	42.1	47.5	48.9	46.2	50.2	47.5	54.3
87.5°	4.1	4.1	6.8	5.4	5.4	6.8	8.1	8.1	10.9	10.9	10.9
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°	2004.1	2004.1	2004.1	2004.1	2004.1	2004.1	2004.1	2004.1	2004.1	2004.1	2004.1
2.5°	2014.9	2014.9	1991.8	1948.4	1941.6	1924.0	1907.7	1906.3	1894.1	1883.2	1877.8
5°	2052.9	2010.9	1976.9	1937.5	1891.4	1869.6	1845.2	1818.1	1807.2	1818.1	1816.7
7.5°	2096.4	2061.1	1959.3	1885.9	1833.0	1811.3	1784.1	1755.6	1758.3	1758.3	1739.3
10°	2138.5	2091.0	1928.0	1834.3	1757.0	1740.7	1725.7	1736.6	1750.2	1752.9	1740.7
12.5°	2209.1	2101.8	1913.1	1782.7	1733.9	1698.6	1708.1	1737.9	1766.5	1758.3	1767.8
15°	2262.0	2111.3	1845.2	1729.8	1668.7	1685.0	1718.9	1739.3	1786.8	1781.4	1790.9
17.5°	2313.6	2116.8	1778.7	1659.2	1633.4	1678.2	1704.0	1762.4	1777.3	1809.9	1822.1
20°	2419.5	2127.6	1710.8	1615.7	1607.6	1659.2	1704.0	1731.2	1763.7	1792.3	1792.3
22.5°	2473.9	2122.2	1666.0	1558.7	1584.5	1617.1	1657.8	1704.0	1704.0	1731.2	1732.5
25°	2541.7	2100.5	1595.4	1531.6	1550.6	1581.8	1628.0	1611.7	1629.3	1629.3	1651.0
27.5°	2619.1	2054.3	1534.3	1482.7	1520.7	1554.6	1561.4	1550.6	1530.2	1527.5	1519.3
30°	2681.6	1997.3	1489.5	1466.4	1497.6	1516.6	1494.9	1471.8	1436.5	1433.8	1414.8
32.5°	2767.1	1926.7	1433.8	1425.7	1461.0	1462.3	1455.5	1420.2	1368.6	1346.9	1325.2
35°	2911.1	1885.9	1391.7	1403.9	1414.8	1410.7	1398.5	1360.5	1308.9	1299.4	1291.2
37.5°	3017.0	1856.1	1348.3	1363.2	1372.7	1378.1	1341.5	1299.4	1300.7	1281.7	1276.3
40°	3136.4	1837.1	1313.0	1319.8	1321.1	1338.8	1294.0	1273.6	1283.1	1270.9	1279.0
42.5°	3289.9	1842.5	1276.3	1270.9	1296.7	1289.9	1268.2	1241.0	1246.4	1209.8	1215.2
45°	3371.3	1879.2	1254.6	1230.1	1258.7	1257.3	1228.8	1203.0	1170.4	1099.8	1102.5
47.5°	3425.6	1888.7	1203.0	1186.7	1216.6	1234.2	1201.6	1141.9	1095.7	1045.5	1033.3
50°	3481.3	1906.3	1178.5	1144.6	1156.8	1198.9	1158.2	1101.1	1056.3	1011.5	1018.3
52.5°	3530.2	1940.3	1131.0	1080.8	1102.5	1148.7	1126.9	1057.7	1008.8	972.2	961.3
55°	3747.4	2016.3	1050.9	985.7	1037.3	1095.7	1083.5	999.3	946.4	927.4	924.6
56°	3781.4	2019.0	1008.8	953.2	1000.7	1078.1	1063.1	973.5	926.0	896.1	897.5
57.5°	3786.8	1986.4	949.1	923.3	964.0	1052.3	1033.3	953.2	888.0	860.8	852.7
60°	3332.0	1550.6	874.4	858.1	905.6	973.5	966.7	897.5	824.2	792.9	807.9
62.5°	2271.5	1136.5	816.0	813.3	837.7	904.3	886.6	824.2	763.1	742.7	733.2
65°	1322.5	862.2	759.0	748.1	768.5	803.8	816.0	750.8	687.0	673.5	669.4
67.5°	780.7	712.8	685.7	668.0	661.2	683.0	692.5	654.4	590.6	571.6	587.9
70°	653.1	634.1	635.4	605.6	589.3	574.3	566.2	532.2	479.3	454.9	448.1
72.5°	563.5	555.3	549.9	522.7	507.8	473.9	438.6	404.6	365.2	344.9	346.2
75°	430.4	427.7	430.4	416.8	391.0	363.9	331.3	287.8	258.0	232.2	237.6
77.5°	256.6	264.8	268.8	263.4	252.5	228.1	207.7	179.2	150.7	130.3	127.6
80°	176.5	183.3	190.1	183.3	172.4	154.8	133.1	111.3	91.0	80.1	77.4
82.5°	134.4	141.2	145.3	138.5	124.9	105.9	91.0	76.0	59.7	48.9	46.2
85°	48.9	55.7	54.3	65.2	70.6	67.9	58.4	44.8	33.9	24.4	23.1
87.5°	13.6	12.2	13.6	13.6	13.6	12.2	10.9	10.9	10.9	6.8	5.4
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)