

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: P527928

Luminaire Tested: **GALN-SA3A-727-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527928
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-SA3A-727-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA 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: 9576 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

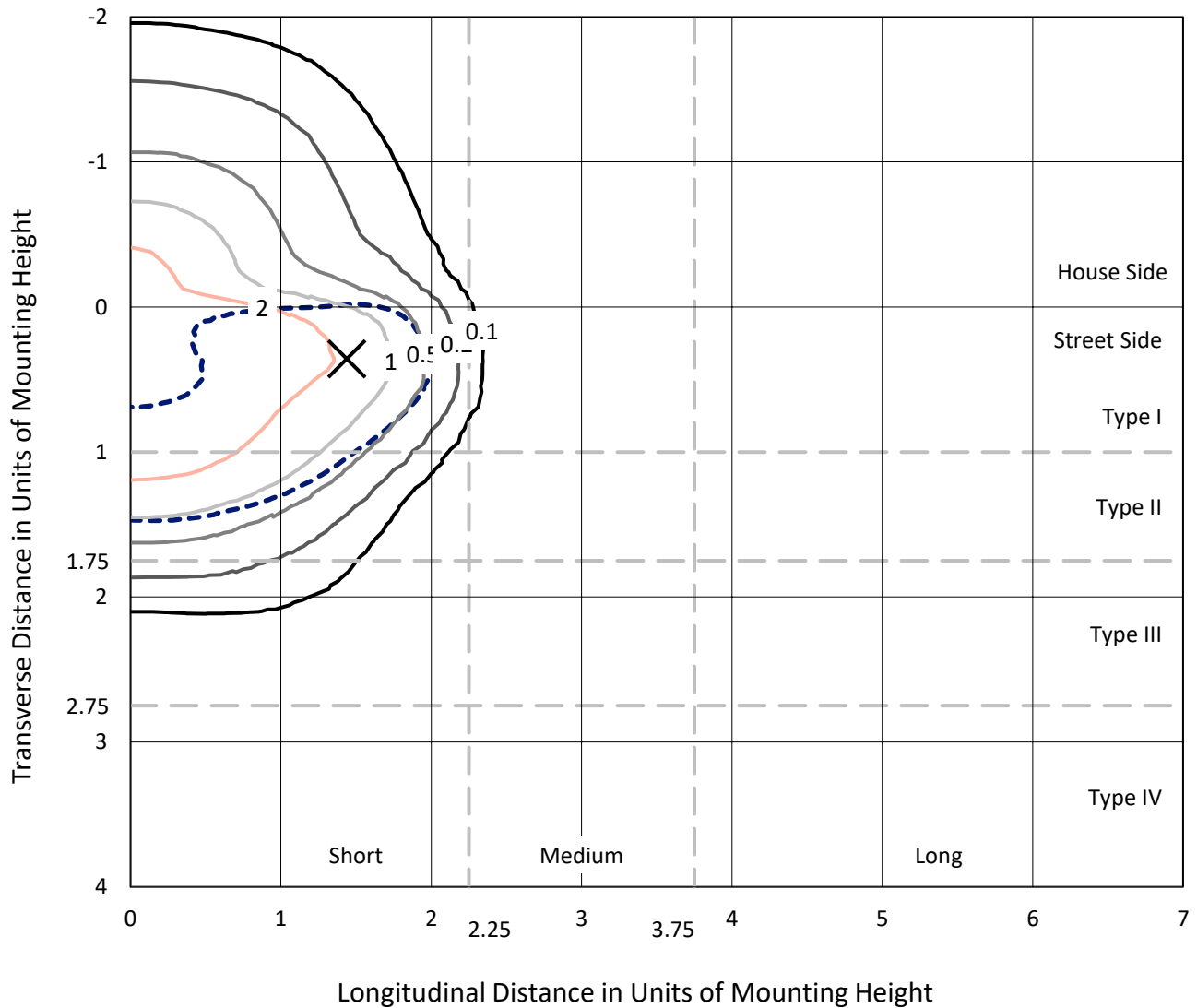
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

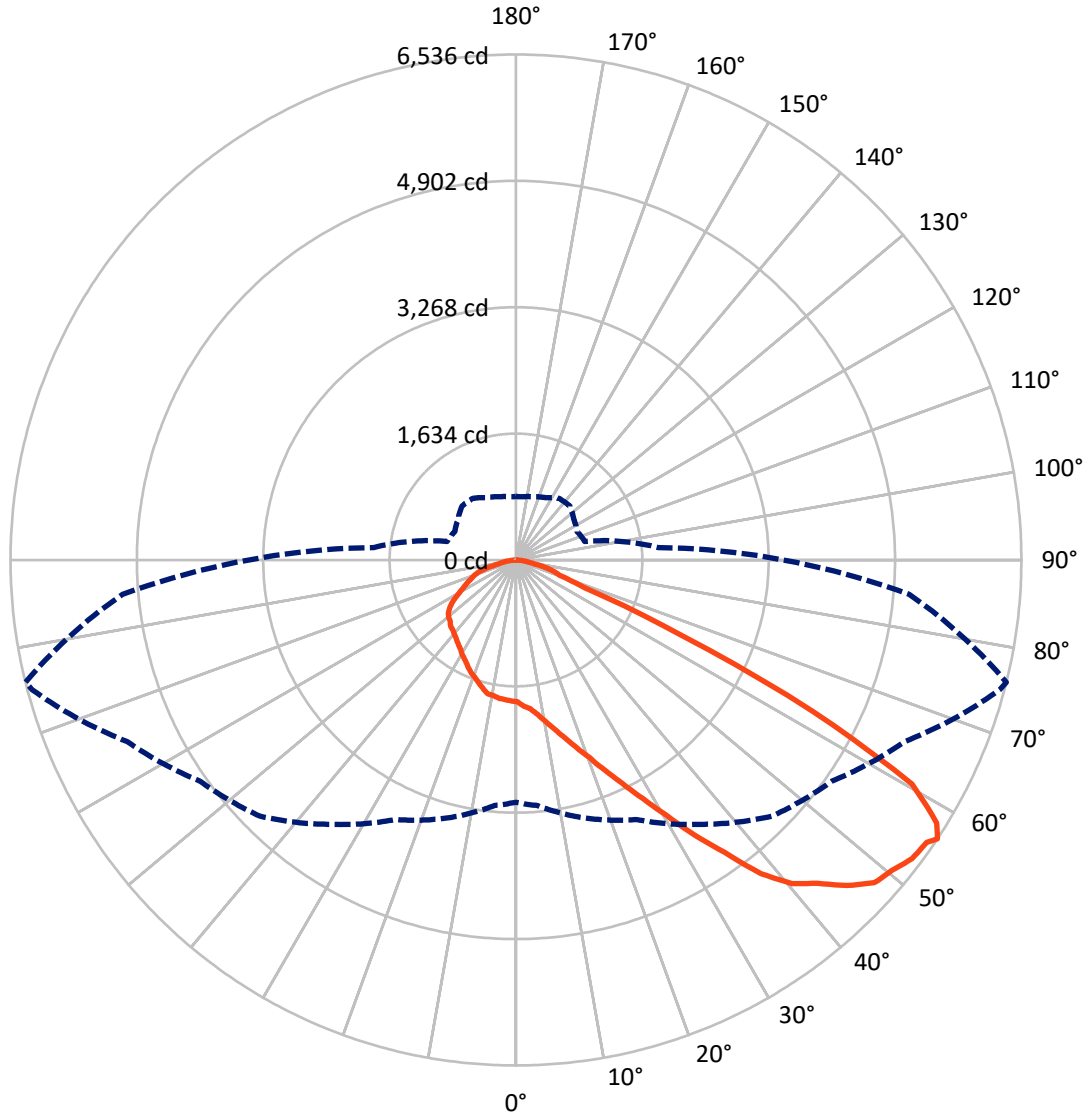
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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	2574.7	0.0	2574.7
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	7001.3	0.0	7001.3
	% Fixture	73.1	0.0	73.1
Total	Lumens	9576.0	0.0	9576.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.7	1.9
10°-20°	570.8	6.0
20°-30°	998.2	10.4
30°-40°	1562.9	16.3
40°-50°	2273.6	23.7
50°-60°	2498.9	26.1
60°-70°	1115.4	11.6
70°-80°	322.2	3.4
80°-90°	52.3	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°	9576.0	100.0
0°-180°	9576.0	100.0

Coefficient of Utilization

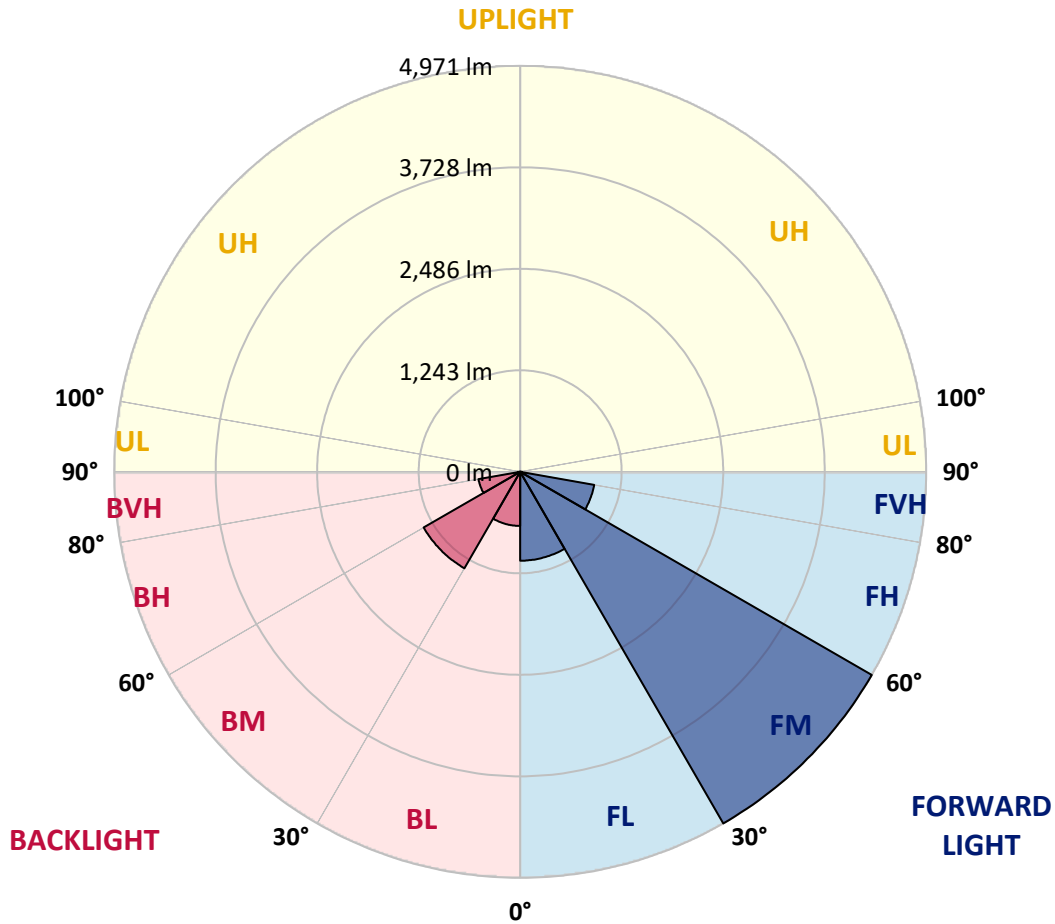


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1088.2	11.4			
FM (30°-60°)	4971.1	51.9			
FH (60°-80°)	919.5	9.6			G1/1800
FVH (80°-90°)	22.5	0.2			G1/100
BL (0°-30°)	662.5	6.9	B2/1000		
BM (30°-60°)	1364.4	14.2	B2/2500		
BH (60°-80°)	518.0	5.4	B2/1000		G2/1000
BVH (80°-90°)	29.8	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1832.2	1832.2	1832.2	1832.2	1832.2	1832.2	1832.2	1832.2	1832.2	1832.2	1832.2
2.5°	2018.4	1986.2	1983.7	1975.0	1980.0	1957.6	1934.0	1903.0	1870.7	1890.6	1843.4
5°	2160.0	2116.5	2133.9	2104.1	2107.8	2078.0	2029.6	1993.6	1953.9	1930.3	1896.8
7.5°	2209.6	2213.3	2225.8	2220.8	2196.0	2196.0	2163.7	2100.4	2030.9	2017.2	1961.3
10°	2276.7	2277.9	2264.2	2268.0	2302.7	2286.6	2258.0	2230.7	2141.3	2125.2	2025.9
12.5°	2300.2	2277.9	2300.2	2320.1	2361.1	2383.4	2377.2	2357.3	2261.8	2250.6	2105.3
15°	2304.0	2290.3	2308.9	2353.6	2389.6	2484.0	2531.1	2517.5	2390.9	2392.1	2194.7
17.5°	2286.6	2305.2	2312.7	2351.1	2434.3	2522.4	2659.0	2677.6	2573.3	2557.2	2307.7
20°	2310.2	2296.5	2306.4	2341.2	2451.7	2589.5	2768.2	2891.1	2744.6	2733.5	2424.4
22.5°	2400.8	2382.2	2379.7	2402.0	2481.5	2624.2	2883.7	3104.6	2953.2	2959.4	2569.6
25°	2471.5	2481.5	2472.8	2471.5	2521.2	2676.4	3036.4	3359.1	3236.2	3200.2	2740.9
27.5°	2593.2	2616.8	2599.4	2623.0	2611.8	2754.6	3145.6	3640.9	3541.6	3493.2	2896.1
30°	2762.0	2774.4	2758.3	2758.3	2724.8	2863.8	3244.9	3935.1	3894.1	3828.3	3078.6
32.5°	2984.2	3002.8	2970.6	2951.9	2947.0	3026.4	3423.7	4225.6	4295.1	4239.2	3320.6
35°	3278.4	3267.3	3228.8	3211.4	3144.4	3275.9	3689.3	4559.5	4742.0	4642.7	3613.6
37.5°	3537.9	3520.5	3518.0	3421.2	3437.3	3545.3	3915.2	4812.7	5175.2	5146.7	3922.7
40°	3779.9	3796.1	3822.1	3767.5	3742.7	3861.9	4178.4	5006.4	5511.6	5500.5	4161.0
42.5°	4039.4	4024.5	4070.4	4024.5	3987.2	4156.1	4463.9	5140.5	5807.1	5715.2	4410.5
45°	4415.5	4368.3	4384.5	4388.2	4360.9	4423.0	4581.9	5237.3	6014.4	6004.4	4593.0
47.5°	4729.6	4730.8	4703.5	4682.4	4599.2	4661.3	4713.4	5298.1	6252.7	6236.6	4663.8
50°	4846.3	4830.1	4909.6	4955.5	4960.5	4833.8	4816.5	5331.6	6378.1	6307.3	4734.5
52.5°	4426.7	4441.6	4567.0	4840.1	4997.7	5011.4	4936.9	5401.1	6429.0	6414.1	4791.6
55°	3562.7	3634.7	3840.8	4156.1	4529.7	4940.6	5067.2	5473.1	6456.3	6443.9	5044.9
56°	3131.9	3187.8	3455.9	3703.0	4172.2	4683.6	4985.3	5550.1	6477.4	6535.8	5104.5
57.5°	2521.2	2585.7	2778.2	3058.7	3612.4	4194.5	4759.4	5455.8	6395.5	6417.8	5147.9
60°	1576.5	1582.7	1813.6	1998.6	2388.4	2956.9	3632.2	4747.0	5918.8	5886.5	4624.1
62.5°	1034.1	1035.3	1245.1	1396.5	1574.0	1704.4	2137.6	3148.1	4367.1	4310.0	3292.1
65°	726.2	742.3	905.0	1107.3	1179.3	1111.0	1097.4	1659.7	2439.3	2357.3	1768.9
67.5°	531.3	532.5	676.5	893.8	998.1	845.4	686.5	810.6	965.8	963.3	819.3
70°	351.3	366.2	476.7	667.9	787.0	679.0	561.1	579.7	614.5	614.5	609.5
72.5°	204.8	218.5	291.7	423.3	441.9	424.5	444.4	496.5	518.9	517.6	511.4
75°	116.7	122.9	139.0	176.3	219.7	259.4	326.5	376.1	398.5	412.1	396.0
77.5°	68.3	72.0	81.9	100.6	114.2	140.3	177.5	212.3	242.1	238.3	240.8
80°	36.0	36.0	45.9	59.6	79.4	99.3	117.9	137.8	153.9	157.7	161.4
82.5°	21.1	22.3	29.8	43.4	57.1	70.8	90.6	104.3	119.2	120.4	122.9
85°	11.2	12.4	18.6	28.6	38.5	43.4	44.7	42.2	45.9	43.4	49.7
87.5°	3.7	3.7	6.2	5.0	5.0	6.2	7.4	7.4	9.9	9.9	9.9
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°	1832.2	1832.2	1832.2	1832.2	1832.2	1832.2	1832.2	1832.2	1832.2	1832.2	1832.2
2.5°	1842.2	1842.2	1821.1	1781.3	1775.1	1759.0	1744.1	1742.9	1731.7	1721.8	1716.8
5°	1876.9	1838.5	1807.4	1771.4	1729.2	1709.4	1687.0	1662.2	1652.2	1662.2	1660.9
7.5°	1916.7	1884.4	1791.3	1724.2	1675.8	1656.0	1631.1	1605.1	1607.6	1607.6	1590.2
10°	1955.1	1911.7	1762.7	1677.1	1606.3	1591.4	1577.8	1587.7	1600.1	1602.6	1591.4
12.5°	2019.7	1921.6	1749.1	1629.9	1585.2	1552.9	1561.6	1588.9	1615.0	1607.6	1616.2
15°	2068.1	1930.3	1687.0	1581.5	1525.6	1540.5	1571.6	1590.2	1633.6	1628.7	1637.4
17.5°	2115.3	1935.3	1626.2	1516.9	1493.4	1534.3	1557.9	1611.3	1624.9	1654.7	1665.9
20°	2212.1	1945.2	1564.1	1477.2	1469.8	1516.9	1557.9	1582.7	1612.5	1638.6	1638.6
22.5°	2261.8	1940.2	1523.1	1425.1	1448.7	1478.5	1515.7	1557.9	1557.9	1582.7	1584.0
25°	2323.8	1920.4	1458.6	1400.3	1417.6	1446.2	1488.4	1473.5	1489.6	1489.6	1509.5
27.5°	2394.6	1878.2	1402.7	1355.6	1390.3	1421.4	1427.6	1417.6	1399.0	1396.5	1389.1
30°	2451.7	1826.0	1361.8	1340.7	1369.2	1386.6	1366.7	1345.6	1313.4	1310.9	1293.5
32.5°	2529.9	1761.5	1310.9	1303.4	1335.7	1336.9	1330.7	1298.5	1251.3	1231.4	1211.6
35°	2661.5	1724.2	1272.4	1283.6	1293.5	1289.8	1278.6	1243.8	1196.7	1188.0	1180.5
37.5°	2758.3	1696.9	1232.7	1246.3	1255.0	1260.0	1226.5	1188.0	1189.2	1171.8	1166.9
40°	2867.5	1679.6	1200.4	1206.6	1207.8	1224.0	1183.0	1164.4	1173.1	1161.9	1169.4
42.5°	3007.8	1684.5	1166.9	1161.9	1185.5	1179.3	1159.4	1134.6	1139.6	1106.1	1111.0
45°	3082.3	1718.0	1147.0	1124.7	1150.7	1149.5	1123.4	1099.8	1070.1	1005.5	1008.0
47.5°	3131.9	1726.7	1099.8	1084.9	1112.3	1128.4	1098.6	1044.0	1001.8	955.8	944.7
50°	3182.8	1742.9	1077.5	1046.5	1057.6	1096.1	1058.9	1006.7	965.8	924.8	931.0
52.5°	3227.5	1773.9	1034.1	988.1	1008.0	1050.2	1030.3	967.0	922.3	888.8	878.9
55°	3426.1	1843.4	960.8	901.2	948.4	1001.8	990.6	913.6	865.2	847.8	845.4
56°	3457.2	1845.9	922.3	871.4	914.9	985.6	972.0	890.1	846.6	819.3	820.5
57.5°	3462.1	1816.1	867.7	844.1	881.4	962.1	944.7	871.4	811.8	787.0	779.6
60°	3046.3	1417.6	799.4	784.5	828.0	890.1	883.8	820.5	753.5	725.0	738.6
62.5°	2076.8	1039.0	746.1	743.6	765.9	826.7	810.6	753.5	697.6	679.0	670.3
65°	1209.1	788.3	693.9	684.0	702.6	734.9	746.1	686.5	628.1	615.7	612.0
67.5°	713.8	651.7	626.9	610.7	604.5	624.4	633.1	598.3	540.0	522.6	537.5
70°	597.1	579.7	581.0	553.6	538.7	525.1	517.6	486.6	438.2	415.9	409.6
72.5°	515.2	507.7	502.8	477.9	464.3	433.2	401.0	369.9	333.9	315.3	316.5
75°	393.5	391.0	393.5	381.1	357.5	332.7	302.9	263.2	235.9	212.3	217.2
77.5°	234.6	242.1	245.8	240.8	230.9	208.5	189.9	163.9	137.8	119.2	116.7
80°	161.4	167.6	173.8	167.6	157.7	141.5	121.7	101.8	83.2	73.2	70.8
82.5°	122.9	129.1	132.8	126.6	114.2	96.8	83.2	69.5	54.6	44.7	42.2
85°	44.7	50.9	49.7	59.6	64.6	62.1	53.4	41.0	31.0	22.3	21.1
87.5°	12.4	11.2	12.4	12.4	12.4	11.2	9.9	9.9	9.9	6.2	5.0
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)