

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: P528090

Luminaire Tested: **GALN-SA3A-827-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528090
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-SA3A-827-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 615mA 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: 8761 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

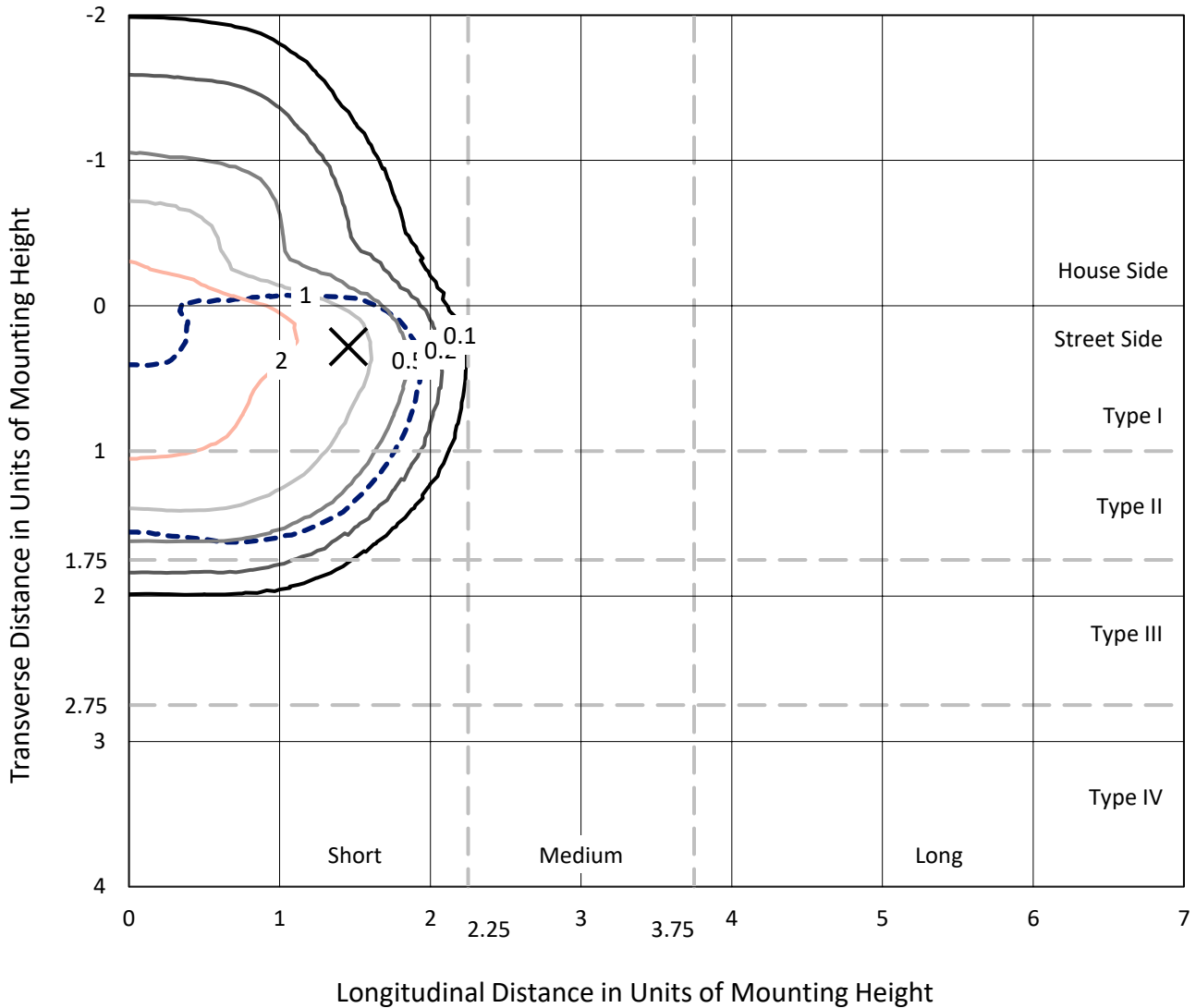
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

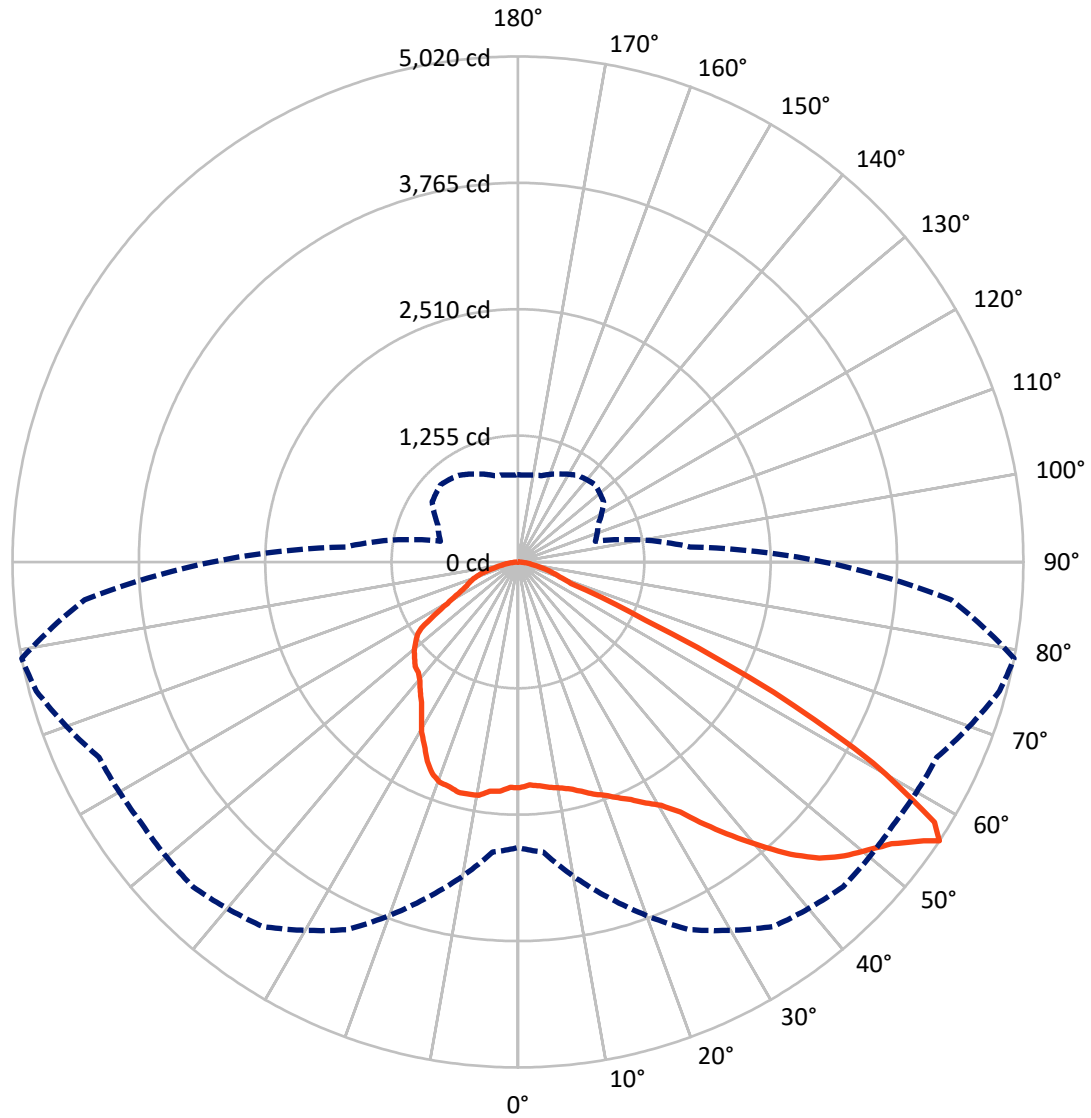
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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
House Side	Lumens	2587.3	0.0	2587.3
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	6173.7	0.0	6173.7
	% Fixture	70.5	0.0	70.5
Total	Lumens	8761.0	0.0	8761.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.8	2.3
10°-20°	557.8	6.4
20°-30°	954.2	10.9
30°-40°	1462.4	16.7
40°-50°	1976.5	22.6
50°-60°	2270.1	25.9
60°-70°	1034.8	11.8
70°-80°	255.1	2.9
80°-90°	46.4	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°	8761.0	100.0
0°-180°	8761.0	100.0

Coefficient of Utilization

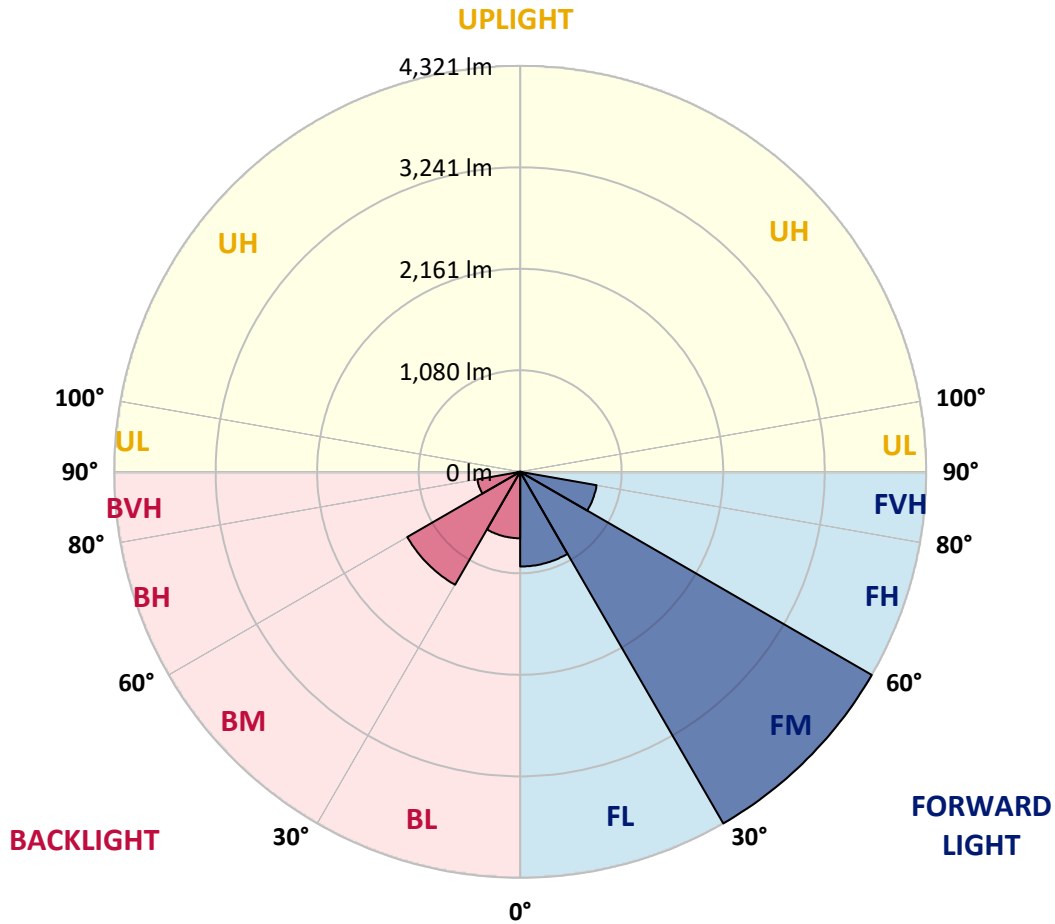


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1008.0	11.5			
FM (30°-60°)	4321.2	49.3			
FH (60°-80°)	826.0	9.4			G1/1800
FVH (80°-90°)	18.5	0.2			G1/100
BL (0°-30°)	707.7	8.1	B2/1000		
BM (30°-60°)	1387.8	15.8	B2/2500		
BH (60°-80°)	463.9	5.3	B1/500		G1/500
BVH (80°-90°)	27.9	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°	2241.6	2241.6	2241.6	2241.6	2241.6	2241.6	2241.6	2241.6	2241.6	2241.6	2241.6
2.5°	2132.5	2127.0	2140.1	2149.9	2161.9	2177.2	2184.8	2189.2	2227.4	2217.6	2247.0
5°	2086.6	2072.4	2082.3	2089.9	2110.6	2129.2	2149.9	2182.7	2217.6	2232.9	2268.9
7.5°	2046.2	2038.6	2036.4	2041.9	2070.3	2094.3	2130.3	2178.3	2235.0	2260.1	2280.9
10°	1979.7	1968.8	1985.1	2021.1	2028.8	2079.0	2120.5	2189.2	2238.3	2282.0	2343.1
12.5°	1950.2	1939.3	1942.6	1963.3	2016.8	2064.8	2113.9	2191.4	2295.1	2312.5	2394.4
15°	1997.1	1986.2	1989.5	1984.0	2035.3	2060.4	2137.9	2235.0	2334.4	2363.8	2451.1
17.5°	2104.1	2105.2	2091.0	2079.0	2067.0	2120.5	2173.9	2261.2	2349.6	2423.8	2489.3
20°	2308.2	2272.2	2243.8	2176.1	2157.6	2180.5	2248.1	2332.2	2411.8	2473.0	2547.2
22.5°	2465.3	2468.6	2428.2	2316.9	2276.5	2286.3	2344.2	2412.9	2500.2	2543.9	2629.0
25°	2693.4	2670.5	2626.8	2538.4	2447.9	2455.5	2498.1	2560.3	2584.3	2614.8	2707.6
27.5°	2901.8	2908.4	2822.2	2739.2	2626.8	2605.0	2681.4	2692.3	2651.9	2709.8	2741.4
30°	3113.6	3108.1	3051.4	2954.2	2844.0	2848.4	2882.2	2828.7	2773.1	2804.7	2826.5
32.5°	3332.9	3270.7	3268.5	3181.2	3097.2	3056.8	3015.3	3041.5	2955.3	2961.9	2941.1
35°	3508.6	3517.4	3467.2	3405.0	3363.5	3292.5	3179.0	3226.0	3209.6	3202.0	3112.5
37.5°	3636.3	3602.5	3627.6	3606.8	3567.6	3479.2	3361.3	3406.0	3413.7	3450.8	3347.1
40°	3741.1	3726.9	3793.5	3804.4	3777.1	3586.1	3374.4	3507.5	3622.1	3702.9	3579.6
42.5°	3791.3	3821.8	3891.7	3975.7	3914.6	3710.5	3442.1	3585.0	3840.4	3968.1	3800.0
45°	3858.9	3819.7	3923.3	4077.2	4078.3	3815.3	3507.5	3689.8	4010.6	4196.2	3950.6
47.5°	3790.2	3809.8	3916.8	4112.1	4162.3	3925.5	3684.3	3838.2	4198.3	4363.1	4090.3
50°	3636.3	3675.6	3870.9	4073.9	4225.6	4042.3	3887.3	3998.6	4371.9	4497.4	4113.2
52.5°	3475.9	3497.7	3803.3	4103.4	4254.0	4192.9	4159.1	4220.2	4583.6	4649.1	4141.6
55°	3039.4	3143.0	3579.6	4090.3	4392.6	4464.6	4438.4	4527.9	4823.7	4889.2	4296.6
56°	2837.5	2892.0	3445.3	4029.2	4419.9	4563.9	4550.8	4591.2	4951.4	5020.1	4320.6
57.5°	2464.2	2468.6	2937.9	3758.5	4317.3	4593.4	4580.3	4612.0	4926.3	4879.3	4110.0
60°	1542.1	1609.7	1999.3	2890.9	3671.2	4261.6	4335.9	4081.6	4153.6	4054.3	3197.6
62.5°	798.9	789.0	1047.7	1690.5	2436.9	3051.4	3120.1	3108.1	2996.8	2851.6	2088.8
65°	398.3	400.5	547.8	837.1	1248.5	1597.7	1789.8	1810.5	1514.8	1393.6	990.9
67.5°	289.2	300.1	394.0	511.8	588.2	658.1	806.5	791.2	599.1	569.7	528.2
70°	224.8	234.6	319.8	390.7	354.7	354.7	386.3	399.4	426.7	438.7	452.9
72.5°	163.7	171.3	244.5	269.6	232.5	249.9	289.2	319.8	348.1	352.5	368.9
75°	112.4	119.0	160.4	148.4	139.7	172.4	211.7	240.1	260.8	271.7	281.6
77.5°	73.1	75.3	91.7	77.5	89.5	111.3	137.5	161.5	182.3	191.0	193.2
80°	32.7	36.0	39.3	49.1	62.2	79.7	98.2	117.9	131.0	134.2	140.8
82.5°	18.6	18.6	24.0	34.9	45.8	57.8	70.9	85.1	100.4	103.7	102.6
85°	9.8	9.8	14.2	20.7	28.4	33.8	32.7	33.8	36.0	41.5	40.4
87.5°	3.3	3.3	4.4	4.4	5.5	6.5	5.5	7.6	9.8	9.8	9.8
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°	2241.6	2241.6	2241.6	2241.6	2241.6	2241.6	2241.6	2241.6	2241.6	2241.6	2241.6
2.5°	2238.3	2248.1	2235.0	2263.4	2263.4	2258.0	2230.7	2239.4	2246.0	2246.0	2251.4
5°	2280.9	2277.6	2286.3	2252.5	2231.8	2224.1	2179.4	2157.6	2139.0	2137.9	2121.5
7.5°	2304.9	2296.2	2292.9	2267.8	2176.1	2120.5	2024.4	1968.8	1956.8	1914.2	1930.6
10°	2343.1	2359.5	2343.1	2206.7	2079.0	1951.3	1857.4	1771.2	1737.4	1710.1	1693.7
12.5°	2421.7	2414.0	2319.1	2134.6	1955.7	1804.0	1664.3	1573.7	1539.9	1515.9	1513.7
15°	2488.2	2450.0	2304.9	2021.1	1763.6	1602.1	1487.5	1423.1	1407.8	1410.0	1419.8
17.5°	2511.2	2485.0	2230.7	1903.3	1620.6	1430.7	1377.3	1367.4	1381.6	1398.0	1402.4
20°	2547.2	2505.7	2200.1	1742.9	1443.8	1323.8	1320.5	1355.4	1381.6	1405.6	1408.9
22.5°	2622.5	2517.7	2100.8	1591.2	1322.7	1292.1	1323.8	1353.2	1393.6	1413.3	1395.8
25°	2644.3	2491.5	1961.1	1408.9	1246.3	1272.5	1306.3	1346.7	1375.1	1386.0	1393.6
27.5°	2662.8	2451.1	1772.3	1287.8	1222.3	1271.4	1306.3	1340.2	1355.4	1365.3	1374.0
30°	2715.2	2439.1	1608.6	1207.0	1207.0	1249.6	1294.3	1303.0	1323.8	1335.8	1351.1
32.5°	2741.4	2356.2	1440.6	1155.7	1191.7	1260.5	1263.8	1280.1	1281.2	1291.0	1274.7
35°	2810.2	2297.3	1284.5	1118.6	1198.3	1249.6	1265.9	1256.1	1202.6	1176.5	1181.9
37.5°	2860.4	2267.8	1172.1	1114.2	1199.4	1261.6	1270.3	1196.1	1140.4	1096.8	1107.7
40°	2995.7	2194.7	1087.0	1106.6	1209.2	1274.7	1250.7	1169.9	1069.5	1024.8	1017.1
42.5°	3099.4	2142.3	1033.5	1097.9	1216.8	1293.2	1240.8	1117.5	1014.9	973.5	984.4
45°	3219.4	2130.3	1005.1	1100.1	1229.9	1303.0	1228.8	1077.1	968.0	951.6	948.4
47.5°	3262.0	2044.1	974.6	1081.5	1226.7	1299.8	1188.5	1046.6	950.5	952.7	961.5
50°	3191.1	1955.7	951.6	1043.3	1204.8	1270.3	1125.2	1006.2	940.7	968.0	983.3
52.5°	3100.5	1865.1	904.7	992.0	1160.1	1224.5	1095.7	1004.0	930.9	922.2	925.4
55°	3127.8	1790.9	839.2	922.2	1088.1	1139.3	1063.0	983.3	906.9	874.2	885.1
56°	3039.4	1714.5	796.7	878.5	1038.9	1084.8	1046.6	964.7	887.3	865.4	865.4
57.5°	2789.4	1458.0	741.0	808.7	935.3	989.8	1014.9	953.8	865.4	827.2	828.3
60°	2057.2	1036.8	664.6	712.6	774.8	818.5	935.3	923.3	810.9	784.7	774.8
62.5°	1268.1	757.4	610.1	628.6	660.3	696.3	816.3	836.0	753.0	724.6	718.1
65°	710.5	579.5	568.6	576.2	591.5	610.1	677.7	721.4	664.6	621.0	618.8
67.5°	519.5	518.4	527.1	533.7	540.2	540.2	556.6	574.0	566.4	531.5	528.2
70°	461.6	464.9	471.5	472.5	474.7	467.1	454.0	448.5	457.3	435.4	431.1
72.5°	380.9	391.8	399.4	400.5	388.5	378.7	361.2	342.7	336.1	331.8	330.7
75°	292.5	300.1	303.4	302.3	297.9	283.7	263.0	244.5	232.5	219.4	225.9
77.5°	197.5	208.4	213.9	213.9	207.4	185.5	175.7	161.5	149.5	135.3	137.5
80°	138.6	146.2	155.0	153.9	143.0	132.1	117.9	104.8	94.9	84.0	82.9
82.5°	103.7	108.0	112.4	110.2	102.6	91.7	81.8	69.8	58.9	51.3	51.3
85°	37.1	40.4	49.1	51.3	55.7	55.7	46.9	39.3	31.6	26.2	26.2
87.5°	10.9	10.9	12.0	12.0	10.9	12.0	9.8	10.9	12.0	7.6	7.6
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)