

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: P526374

Luminaire Tested: **GALN-SA1B-740-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526374
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-SA1B-740-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5026 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

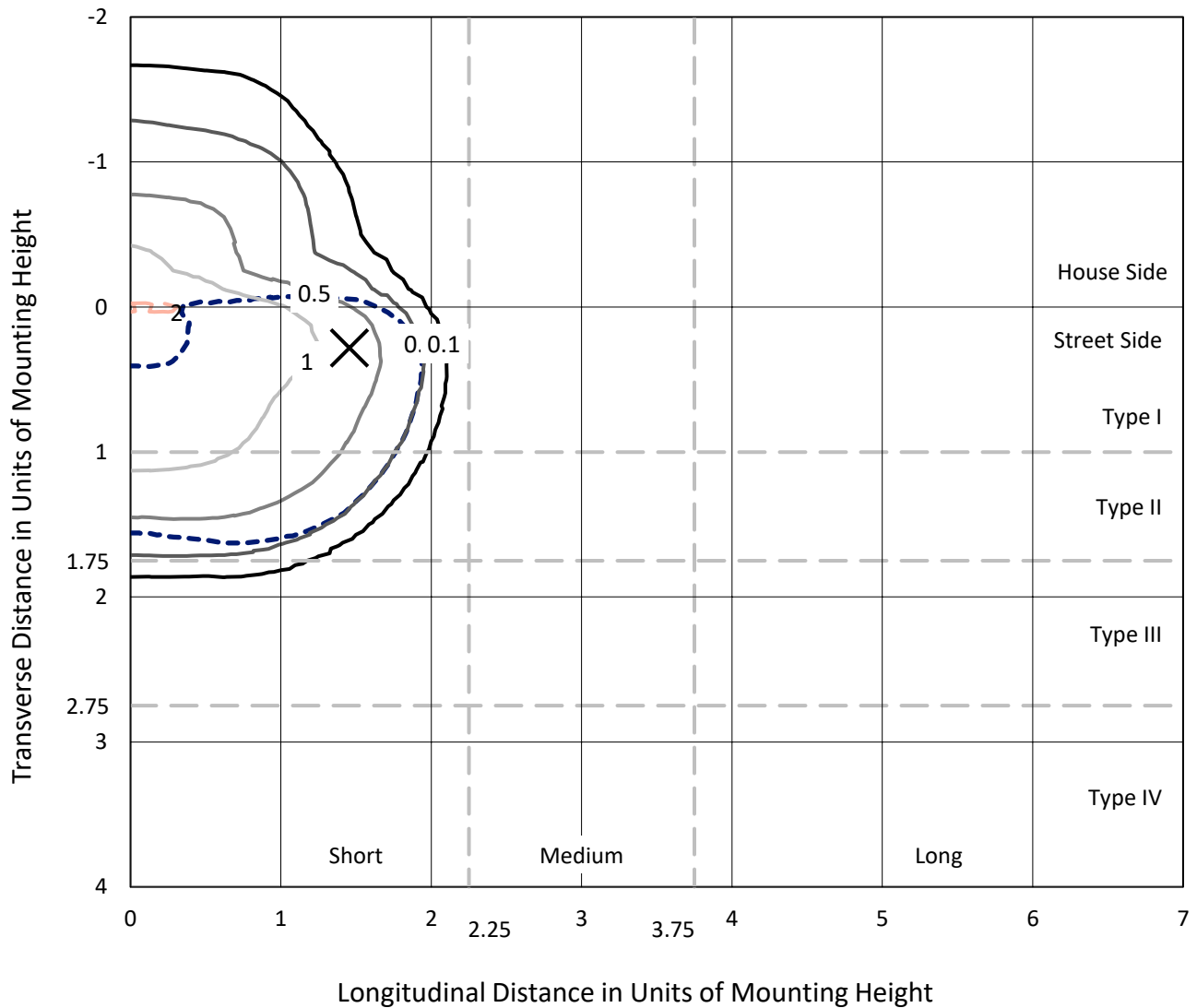
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P526374
 CATALOG NUMBER: GALN-SA1B-740-U-T3R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

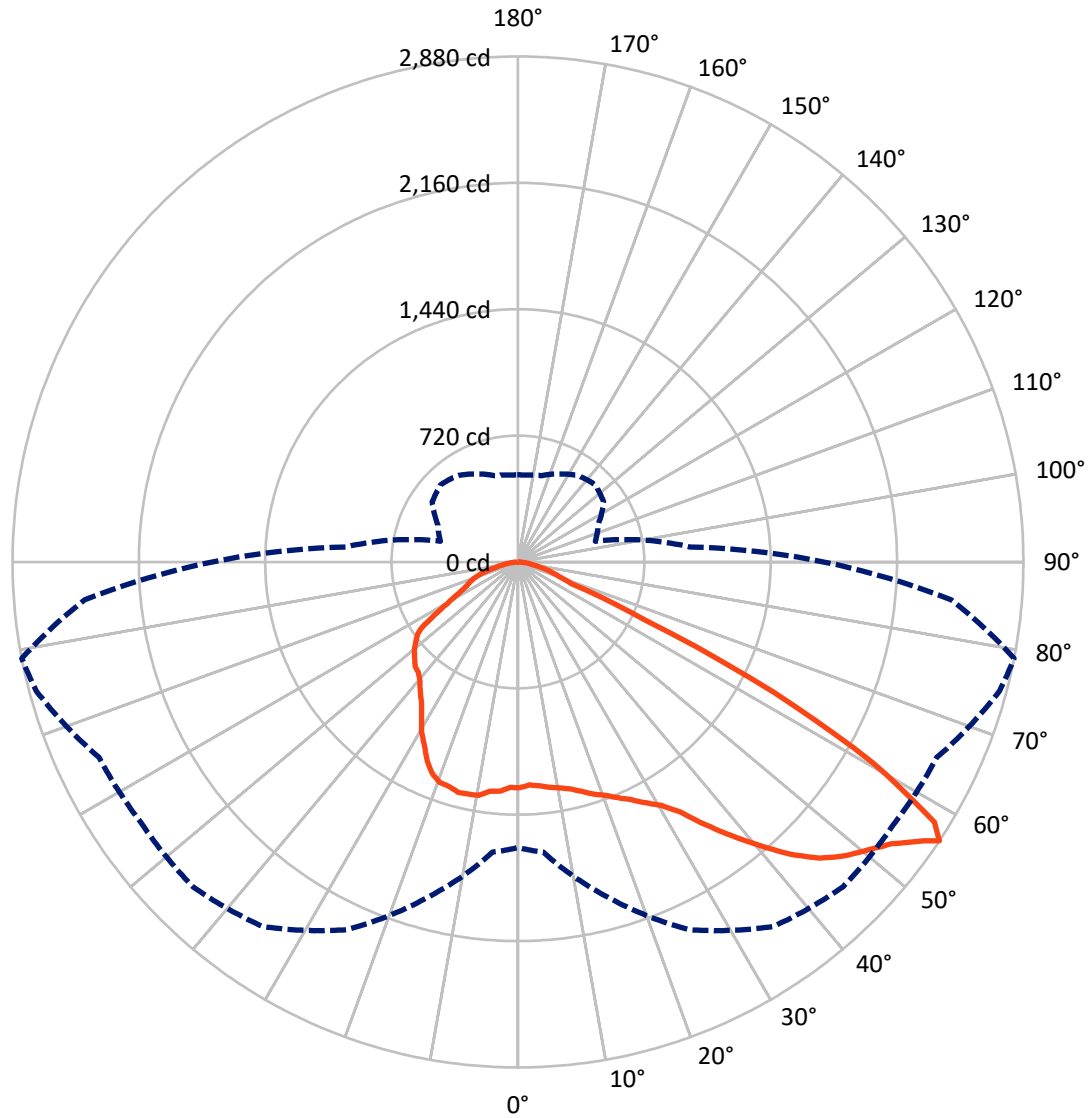
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type II - Short - N/A

REPORT NUMBER: P526374
CATALOG NUMBER: GALN-SA1B-740-U-T3R-GRSWH

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	1484.3	0.0	1484.3
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	3541.7	0.0	3541.7
	% Fixture	70.5	0.0	70.5
Total	Lumens	5026.0	0.0	5026.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.9	2.3
10°-20°	320.0	6.4
20°-30°	547.4	10.9
30°-40°	839.0	16.7
40°-50°	1133.9	22.6
50°-60°	1302.3	25.9
60°-70°	593.6	11.8
70°-80°	146.4	2.9
80°-90°	26.6	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°	5026.0	100.0
0°-180°	5026.0	100.0

Coefficient of Utilization



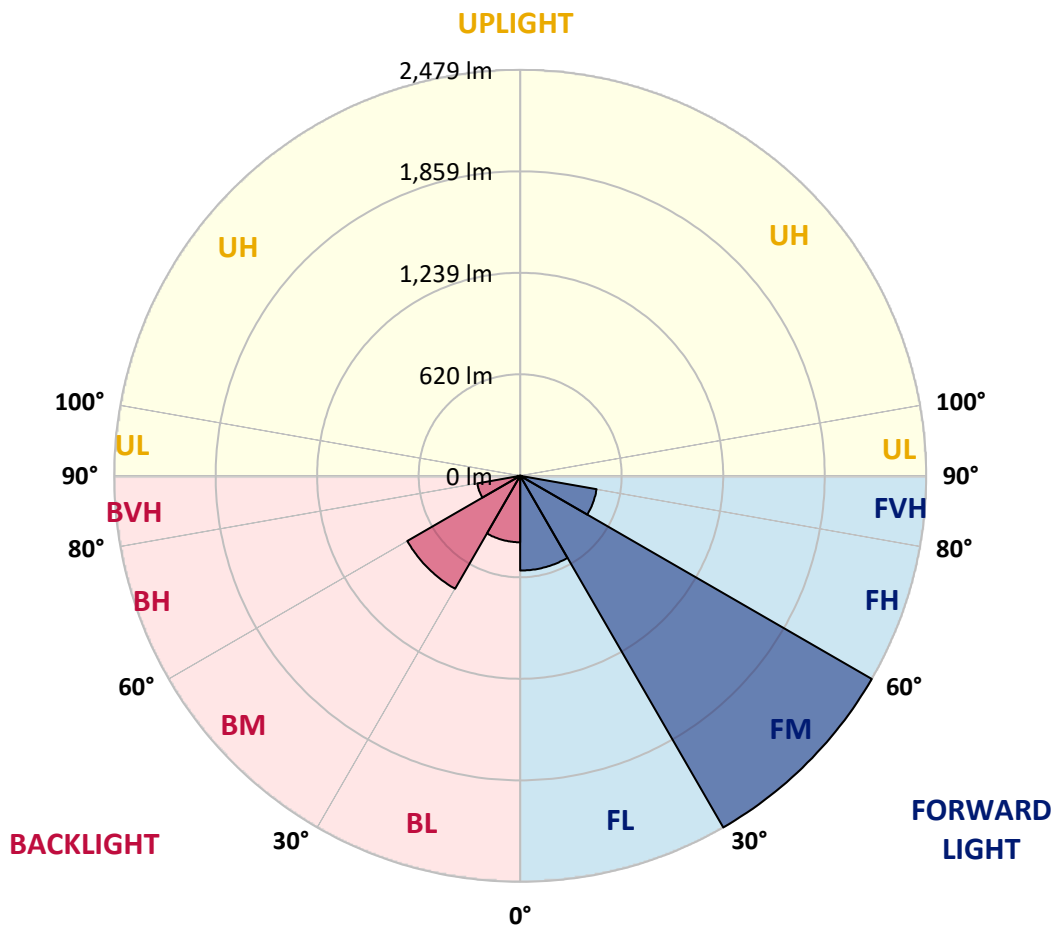
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	578.3	11.5			
FM (30°-60°)	2479.0	49.3			
FH (60°-80°)	473.8	9.4			G0/660
FVH (80°-90°)	10.6	0.2			G1/100
BL (0°-30°)	406.0	8.1	B1/500		
BM (30°-60°)	796.1	15.8	B1/1000		
BH (60°-80°)	266.1	5.3	B1/500		G1/500
BVH (80°-90°)	16.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CATALOG NUMBER: GALN-SA1B-740-U-T3R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1286.0	1286.0	1286.0	1286.0	1286.0	1286.0	1286.0	1286.0	1286.0	1286.0	1286.0
2.5°	1223.3	1220.2	1227.7	1233.4	1240.3	1249.0	1253.4	1255.9	1277.8	1272.2	1289.1
5°	1197.1	1188.9	1194.5	1198.9	1210.8	1221.5	1233.4	1252.1	1272.2	1280.9	1301.6
7.5°	1173.9	1169.5	1168.3	1171.4	1187.7	1201.4	1222.1	1249.6	1282.2	1296.6	1308.5
10°	1135.7	1129.4	1138.8	1159.5	1163.9	1192.7	1216.5	1255.9	1284.1	1309.1	1344.2
12.5°	1118.8	1112.5	1114.4	1126.3	1157.0	1184.5	1212.7	1257.2	1316.6	1326.6	1373.6
15°	1145.7	1139.5	1141.3	1138.2	1167.6	1182.0	1226.5	1282.2	1339.2	1356.1	1406.2
17.5°	1207.1	1207.7	1199.6	1192.7	1185.8	1216.5	1247.1	1297.2	1347.9	1390.5	1428.1
20°	1324.1	1303.5	1287.2	1248.4	1237.7	1250.9	1289.7	1337.9	1383.6	1418.7	1461.3
22.5°	1414.3	1416.2	1393.0	1329.2	1306.0	1311.6	1344.8	1384.2	1434.3	1459.4	1508.2
25°	1545.1	1532.0	1507.0	1456.2	1404.3	1408.7	1433.1	1468.8	1482.5	1500.1	1553.3
27.5°	1664.7	1668.5	1619.0	1571.4	1507.0	1494.4	1538.3	1544.5	1521.4	1554.5	1572.7
30°	1786.2	1783.1	1750.5	1694.8	1631.5	1634.1	1653.5	1622.8	1590.9	1609.0	1621.5
32.5°	1912.0	1876.3	1875.1	1825.0	1776.8	1753.6	1729.8	1744.9	1695.4	1699.2	1687.3
35°	2012.8	2017.8	1989.0	1953.3	1929.6	1888.9	1823.8	1850.7	1841.3	1836.9	1785.6
37.5°	2086.1	2066.7	2081.1	2069.2	2046.6	1995.9	1928.3	1954.0	1958.4	1979.6	1920.2
40°	2146.2	2138.0	2176.2	2182.5	2166.8	2057.3	1935.8	2012.2	2077.9	2124.3	2053.5
42.5°	2175.0	2192.5	2232.6	2280.8	2245.7	2128.6	1974.6	2056.7	2203.2	2276.4	2180.0
45°	2213.8	2191.3	2250.7	2339.0	2339.6	2188.8	2012.2	2116.8	2300.8	2407.3	2266.4
47.5°	2174.4	2185.6	2247.0	2359.0	2387.8	2252.0	2113.6	2201.9	2408.5	2503.0	2346.5
50°	2086.1	2108.6	2220.7	2337.1	2424.2	2319.0	2230.1	2293.9	2508.0	2580.0	2359.7
52.5°	1994.0	2006.6	2181.9	2354.0	2440.4	2405.4	2386.0	2421.0	2629.5	2667.1	2375.9
55°	1743.6	1803.1	2053.5	2346.5	2519.9	2561.3	2546.2	2597.6	2767.2	2804.8	2464.9
56°	1627.8	1659.1	1976.5	2311.5	2535.6	2618.2	2610.7	2633.9	2840.5	2879.9	2478.6
57.5°	1413.7	1416.2	1685.4	2156.2	2476.7	2635.1	2627.6	2645.8	2826.1	2799.2	2357.8
60°	884.6	923.5	1147.0	1658.5	2106.1	2444.8	2487.4	2341.5	2382.8	2325.9	1834.4
62.5°	458.3	452.7	601.0	969.8	1398.0	1750.5	1789.9	1783.1	1719.2	1635.9	1198.3
65°	228.5	229.8	314.3	480.2	716.2	916.6	1026.8	1038.7	869.0	799.5	568.5
67.5°	165.9	172.2	226.0	293.6	337.5	377.5	462.7	453.9	343.7	326.8	303.0
70°	129.0	134.6	183.4	224.1	203.5	203.5	221.6	229.1	244.8	251.7	259.8
72.5°	93.9	98.3	140.2	154.6	133.4	143.4	165.9	183.4	199.7	202.2	211.6
75°	64.5	68.2	92.0	85.1	80.1	98.9	121.5	137.7	149.6	155.9	161.5
77.5°	41.9	43.2	52.6	44.5	51.3	63.9	78.9	92.7	104.6	109.6	110.8
80°	18.8	20.7	22.5	28.2	35.7	45.7	56.3	67.6	75.1	77.0	80.8
82.5°	10.6	10.6	13.8	20.0	26.3	33.2	40.7	48.8	57.6	59.5	58.9
85°	5.6	5.6	8.1	11.9	16.3	19.4	18.8	19.4	20.7	23.8	23.2
87.5°	1.9	1.9	2.5	2.5	3.1	3.8	3.1	4.4	5.6	5.6	5.6
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°	1286.0	1286.0	1286.0	1286.0	1286.0	1286.0	1286.0	1286.0	1286.0	1286.0	1286.0
2.5°	1284.1	1289.7	1282.2	1298.5	1298.5	1295.3	1279.7	1284.7	1288.5	1288.5	1291.6
5°	1308.5	1306.6	1311.6	1292.2	1280.3	1275.9	1250.3	1237.7	1227.1	1226.5	1217.1
7.5°	1322.3	1317.3	1315.4	1301.0	1248.4	1216.5	1161.4	1129.4	1122.5	1098.1	1107.5
10°	1344.2	1353.6	1344.2	1265.9	1192.7	1119.4	1065.6	1016.1	996.7	981.1	971.7
12.5°	1389.3	1384.9	1330.4	1224.6	1121.9	1034.9	954.8	902.8	883.4	869.6	868.4
15°	1427.4	1405.5	1322.3	1159.5	1011.7	919.1	853.3	816.4	807.6	808.9	814.5
17.5°	1440.6	1425.6	1279.7	1091.9	929.7	820.8	790.1	784.5	792.6	802.0	804.5
20°	1461.3	1437.5	1262.2	999.8	828.3	759.4	757.5	777.6	792.6	806.4	808.3
22.5°	1504.5	1444.4	1205.2	912.8	758.8	741.3	759.4	776.3	799.5	810.8	800.7
25°	1517.0	1429.3	1125.1	808.3	715.0	730.0	749.4	772.6	788.9	795.1	799.5
27.5°	1527.6	1406.2	1016.7	738.8	701.2	729.4	749.4	768.8	777.6	783.2	788.2
30°	1557.7	1399.3	922.8	692.4	692.4	716.9	742.5	747.5	759.4	766.3	775.1
32.5°	1572.7	1351.7	826.4	663.0	683.7	723.1	725.0	734.4	735.0	740.6	731.3
35°	1612.1	1317.9	736.9	641.7	687.4	716.9	726.2	720.6	689.9	674.9	678.0
37.5°	1640.9	1301.0	672.4	639.2	688.1	723.7	728.7	686.2	654.2	629.2	635.5
40°	1718.6	1259.0	623.6	634.8	693.7	731.3	717.5	671.2	613.6	587.9	583.5
42.5°	1778.0	1229.0	592.9	629.8	698.1	741.9	711.8	641.1	582.2	558.5	564.7
45°	1846.9	1222.1	576.6	631.1	705.6	747.5	705.0	617.9	555.3	545.9	544.1
47.5°	1871.3	1172.6	559.1	620.4	703.7	745.7	681.8	600.4	545.3	546.6	551.6
50°	1830.6	1121.9	545.9	598.5	691.2	728.7	645.5	577.2	539.7	555.3	564.1
52.5°	1778.7	1070.0	519.0	569.1	665.5	702.5	628.6	576.0	534.0	529.0	530.9
55°	1794.3	1027.4	481.5	529.0	624.2	653.6	609.8	564.1	520.3	501.5	507.7
56°	1743.6	983.6	457.0	504.0	596.0	622.3	600.4	553.4	509.0	496.5	496.5
57.5°	1600.2	836.4	425.1	463.9	536.5	567.8	582.2	547.2	496.5	474.6	475.2
60°	1180.1	594.8	381.3	408.8	444.5	469.6	536.5	529.7	465.2	450.1	444.5
62.5°	727.5	434.5	350.0	360.6	378.8	399.4	468.3	479.6	432.0	415.7	412.0
65°	407.6	332.4	326.2	330.6	339.3	350.0	388.8	413.8	381.3	356.2	355.0
67.5°	298.0	297.4	302.4	306.1	309.9	309.9	319.3	329.3	324.9	304.9	303.0
70°	264.8	266.7	270.5	271.1	272.3	268.0	260.4	257.3	262.3	249.8	247.3
72.5°	218.5	224.8	229.1	229.8	222.9	217.2	207.2	196.6	192.8	190.3	189.7
75°	167.8	172.2	174.0	173.4	170.9	162.8	150.9	140.2	133.4	125.8	129.6
77.5°	113.3	119.6	122.7	122.7	119.0	106.4	100.8	92.7	85.8	77.6	78.9
80°	79.5	83.9	88.9	88.3	82.0	75.8	67.6	60.1	54.5	48.2	47.6
82.5°	59.5	62.0	64.5	63.2	58.9	52.6	47.0	40.1	33.8	29.4	29.4
85°	21.3	23.2	28.2	29.4	31.9	31.9	26.9	22.5	18.2	15.0	15.0
87.5°	6.3	6.3	6.9	6.9	6.3	6.9	5.6	6.3	6.9	4.4	4.4
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)