

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: P526836

Luminaire Tested: **GALN-SA1D-740-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526836
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-SA1D-740-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6566 lumens
Efficiency: N/A
Efficacy: 101.0 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

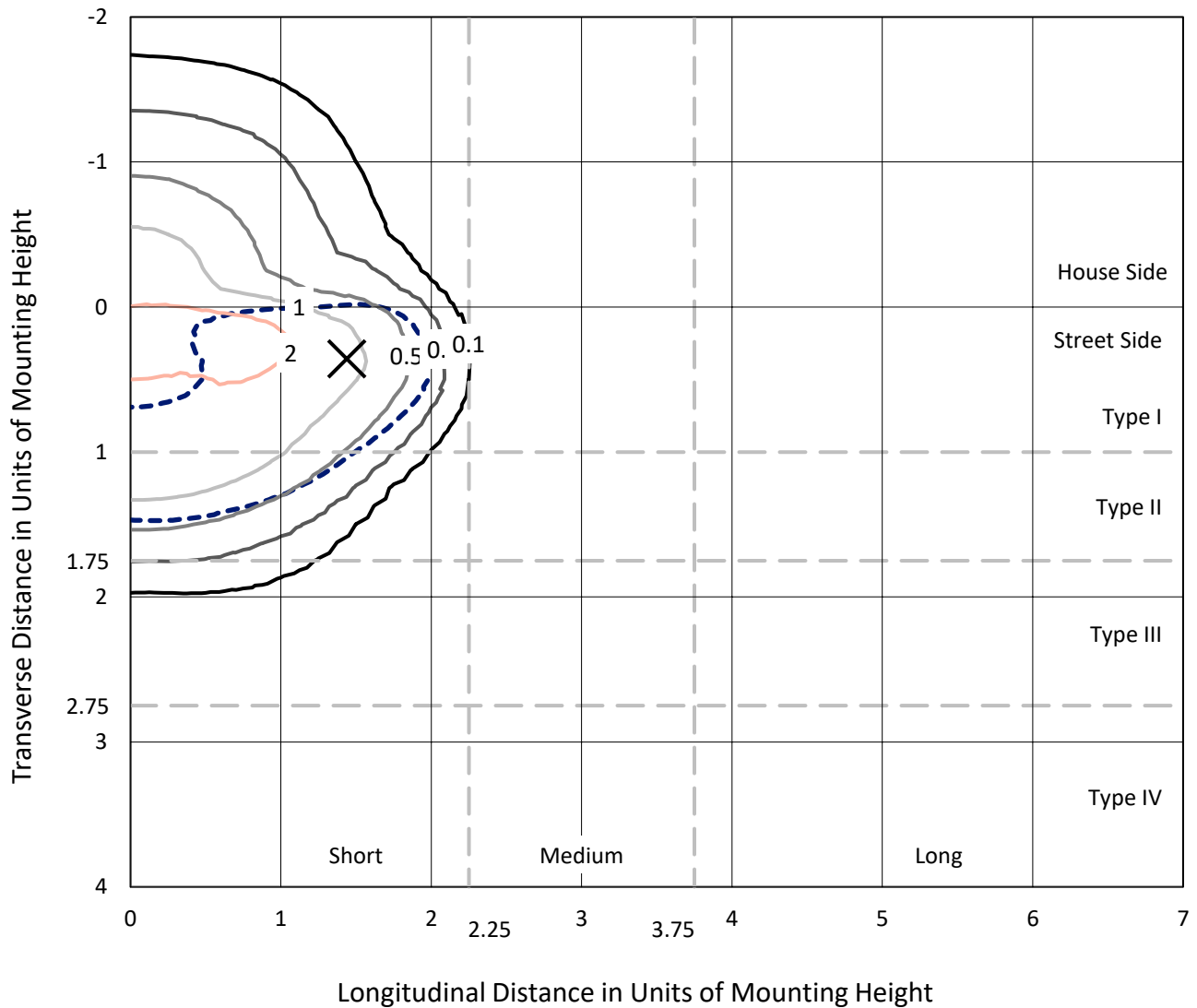
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

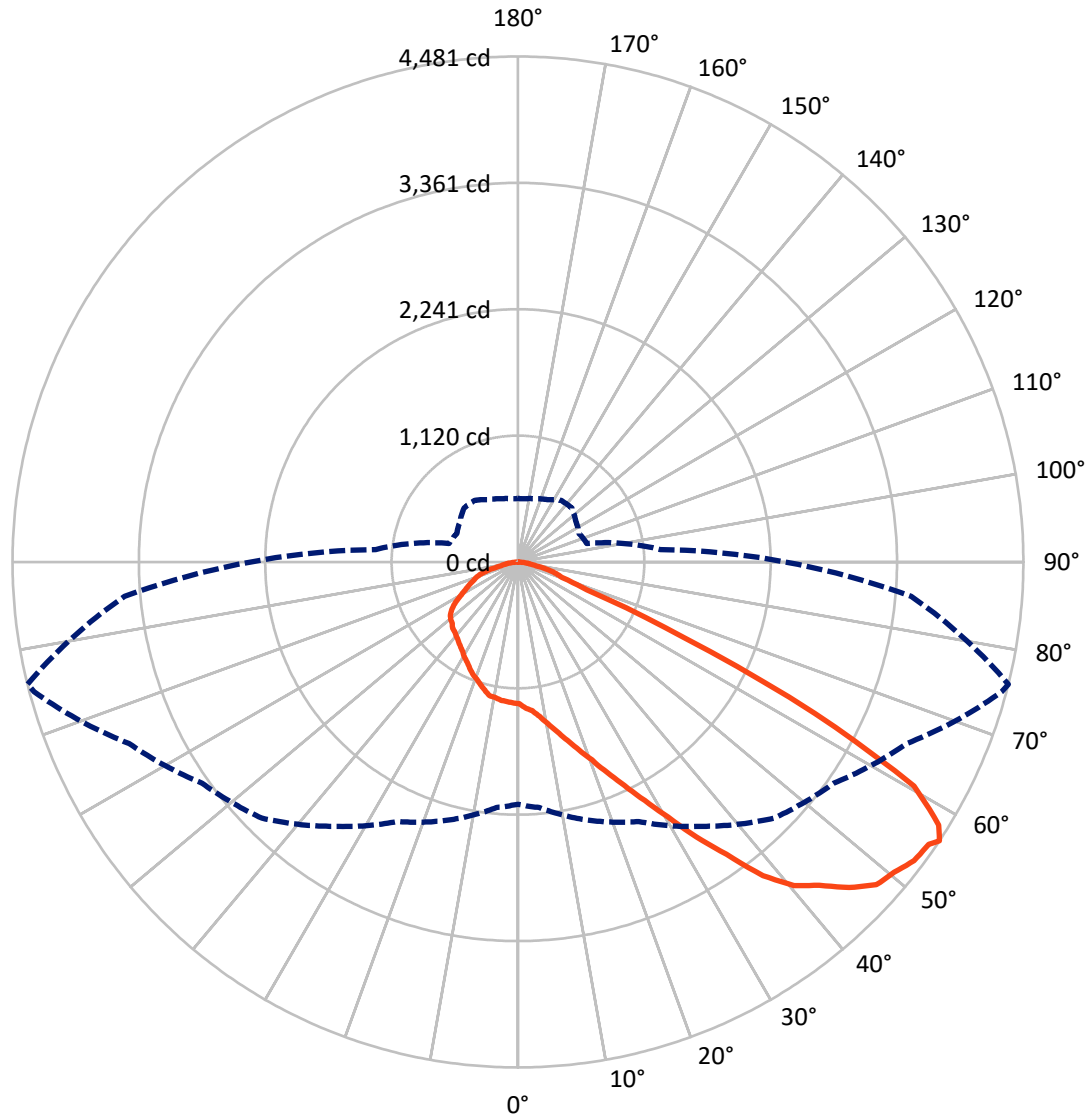
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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	1765.4	0.0	1765.4
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	4800.6	0.0	4800.6
	% Fixture	73.1	0.0	73.1
Total	Lumens	6566.0	0.0	6566.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.6	1.9
10°-20°	391.4	6.0
20°-30°	684.5	10.4
30°-40°	1071.7	16.3
40°-50°	1559.0	23.7
50°-60°	1713.4	26.1
60°-70°	764.8	11.6
70°-80°	220.9	3.4
80°-90°	35.8	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°	6566.0	100.0
0°-180°	6566.0	100.0

Coefficient of Utilization

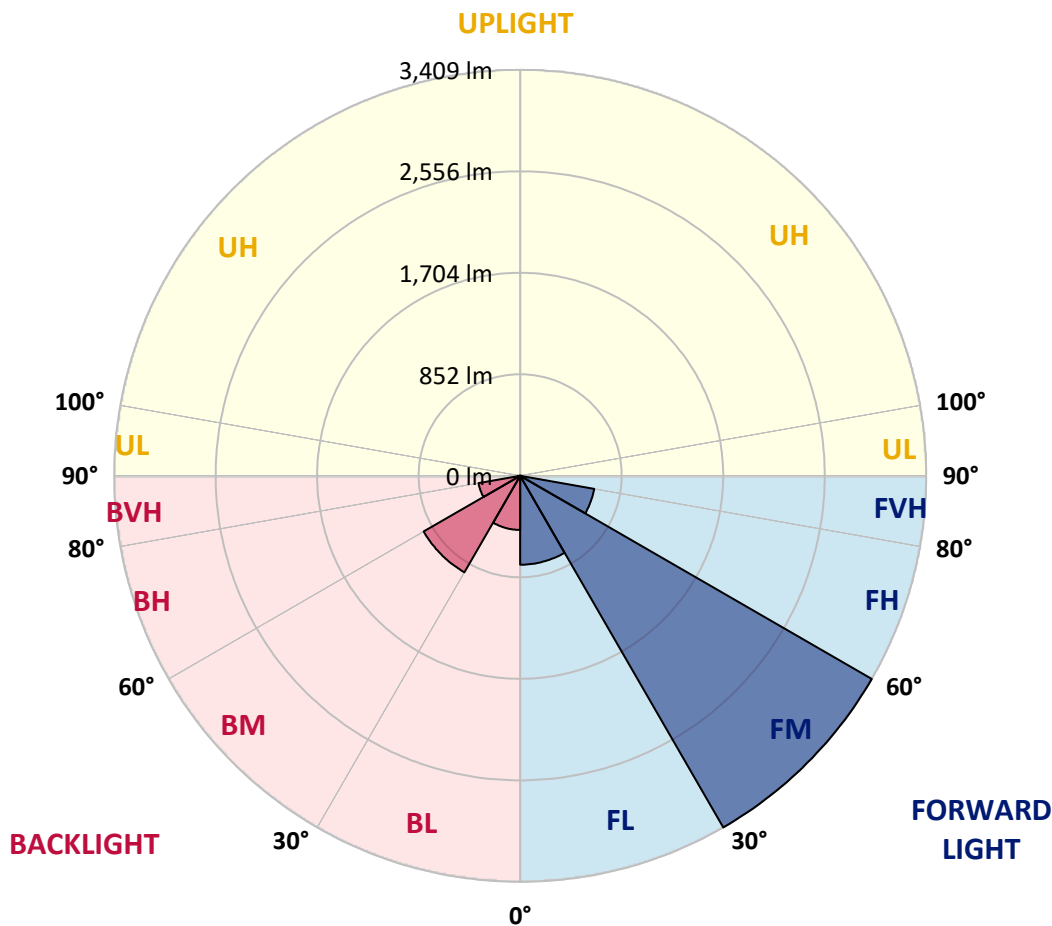


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	746.2	11.4			
FM (30°-60°)	3408.5	51.9			
FH (60°-80°)	630.5	9.6			G0/660
FVH (80°-90°)	15.4	0.2			G1/100
BL (0°-30°)	454.3	6.9	B1/500		
BM (30°-60°)	935.5	14.2	B1/1000		
BH (60°-80°)	355.2	5.4	B1/500		G1/500
BVH (80°-90°)	20.4	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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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1256.3	1256.3	1256.3	1256.3	1256.3	1256.3	1256.3	1256.3	1256.3	1256.3	1256.3
2.5°	1384.0	1361.9	1360.2	1354.2	1357.6	1342.3	1326.1	1304.8	1282.7	1296.3	1264.0
5°	1481.0	1451.2	1463.2	1442.7	1445.3	1424.9	1391.7	1367.0	1339.7	1323.6	1300.6
7.5°	1515.1	1517.6	1526.1	1522.7	1505.7	1505.7	1483.6	1440.2	1392.5	1383.1	1344.8
10°	1561.0	1561.9	1552.5	1555.1	1578.9	1567.8	1548.3	1529.5	1468.3	1457.2	1389.1
12.5°	1577.2	1561.9	1577.2	1590.8	1618.9	1634.2	1630.0	1616.4	1550.8	1543.2	1443.6
15°	1579.8	1570.4	1583.2	1613.8	1638.5	1703.2	1735.5	1726.2	1639.3	1640.2	1504.9
17.5°	1567.8	1580.6	1585.7	1612.1	1669.1	1729.6	1823.2	1836.0	1764.5	1753.4	1582.3
20°	1584.0	1574.7	1581.5	1605.3	1681.1	1775.5	1898.1	1982.4	1881.9	1874.3	1662.3
22.5°	1646.2	1633.4	1631.7	1647.0	1701.5	1799.4	1977.3	2128.8	2024.9	2029.2	1761.9
25°	1694.7	1701.5	1695.5	1694.7	1728.7	1835.1	2082.0	2303.3	2219.0	2194.3	1879.4
27.5°	1778.1	1794.3	1782.3	1798.5	1790.9	1888.7	2156.9	2496.5	2428.4	2395.2	1985.8
30°	1893.8	1902.4	1891.3	1891.3	1868.3	1963.6	2224.9	2698.2	2670.1	2625.0	2110.9
32.5°	2046.2	2059.0	2036.8	2024.1	2020.7	2075.1	2347.5	2897.4	2945.0	2906.7	2276.9
35°	2247.9	2240.3	2213.9	2202.0	2156.0	2246.2	2529.7	3126.3	3251.5	3183.4	2477.7
37.5°	2425.8	2413.9	2412.2	2345.8	2356.9	2430.9	2684.6	3300.0	3548.5	3528.9	2689.7
40°	2591.8	2602.9	2620.7	2583.3	2566.3	2648.0	2865.0	3432.7	3779.2	3771.5	2853.1
42.5°	2769.7	2759.5	2791.0	2759.5	2733.9	2849.7	3060.8	3524.7	3981.8	3918.8	3024.2
45°	3027.6	2995.3	3006.3	3008.9	2990.1	3032.7	3141.7	3591.1	4123.9	4117.1	3149.3
47.5°	3242.9	3243.8	3225.1	3210.6	3153.6	3196.1	3231.9	3632.8	4287.3	4276.3	3197.8
50°	3322.9	3311.9	3366.4	3397.9	3401.3	3314.4	3302.5	3655.8	4373.3	4324.8	3246.3
52.5°	3035.3	3045.5	3131.4	3318.7	3426.8	3436.2	3385.1	3703.4	4408.2	4398.0	3285.5
55°	2442.8	2492.2	2633.5	2849.7	3105.9	3387.6	3474.5	3752.8	4426.9	4418.4	3459.1
56°	2147.5	2185.8	2369.6	2539.0	2860.8	3211.4	3418.3	3805.6	4441.4	4481.4	3500.0
57.5°	1728.7	1773.0	1904.9	2097.3	2476.9	2876.1	3263.4	3740.9	4385.2	4400.5	3529.8
60°	1081.0	1085.2	1243.6	1370.4	1637.6	2027.5	2490.5	3254.9	4058.4	4036.2	3170.6
62.5°	709.0	709.9	853.7	957.6	1079.3	1168.6	1465.7	2158.6	2994.4	2955.2	2257.3
65°	497.9	509.0	620.5	759.2	808.6	761.8	752.4	1138.0	1672.5	1616.4	1212.9
67.5°	364.3	365.1	463.9	612.8	684.3	579.6	470.7	555.8	662.2	660.5	561.8
70°	240.9	251.1	326.8	457.9	539.6	465.6	384.7	397.5	421.3	421.3	417.9
72.5°	140.4	149.8	200.0	290.2	303.0	291.1	304.7	340.5	355.8	354.9	350.7
75°	80.0	84.3	95.3	120.9	150.7	177.9	223.9	257.9	273.2	282.6	271.5
77.5°	46.8	49.4	56.2	68.9	78.3	96.2	121.7	145.5	166.0	163.4	165.1
80°	24.7	24.7	31.5	40.9	54.5	68.1	80.9	94.5	105.5	108.1	110.7
82.5°	14.5	15.3	20.4	29.8	39.2	48.5	62.1	71.5	81.7	82.6	84.3
85°	7.7	8.5	12.8	19.6	26.4	29.8	30.6	28.9	31.5	29.8	34.0
87.5°	2.6	2.6	4.3	3.4	3.4	4.3	5.1	5.1	6.8	6.8	6.8
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°	1256.3	1256.3	1256.3	1256.3	1256.3	1256.3	1256.3	1256.3	1256.3	1256.3	1256.3
2.5°	1263.1	1263.1	1248.7	1221.4	1217.2	1206.1	1195.9	1195.0	1187.4	1180.6	1177.2
5°	1287.0	1260.6	1239.3	1214.6	1185.7	1172.1	1156.7	1139.7	1132.9	1139.7	1138.9
7.5°	1314.2	1292.1	1228.2	1182.3	1149.1	1135.5	1118.4	1100.6	1102.3	1102.3	1090.3
10°	1340.6	1310.8	1208.7	1149.9	1101.4	1091.2	1081.8	1088.6	1097.2	1098.9	1091.2
12.5°	1384.8	1317.6	1199.3	1117.6	1086.9	1064.8	1070.8	1089.5	1107.4	1102.3	1108.2
15°	1418.0	1323.6	1156.7	1084.4	1046.1	1056.3	1077.6	1090.3	1120.1	1116.7	1122.7
17.5°	1450.4	1327.0	1115.0	1040.1	1024.0	1052.0	1068.2	1104.8	1114.2	1134.6	1142.3
20°	1516.8	1333.8	1072.5	1012.9	1007.8	1040.1	1068.2	1085.2	1105.7	1123.5	1123.5
22.5°	1550.8	1330.4	1044.4	977.1	993.3	1013.7	1039.3	1068.2	1068.2	1085.2	1086.1
25°	1593.4	1316.8	1000.1	960.1	972.0	991.6	1020.5	1010.3	1021.4	1021.4	1035.0
27.5°	1641.9	1287.8	961.8	929.5	953.3	974.6	978.8	972.0	959.3	957.6	952.5
30°	1681.1	1252.1	933.7	919.3	938.8	950.8	937.1	922.7	900.5	898.8	886.9
32.5°	1734.7	1207.8	898.8	893.7	915.9	916.7	912.4	890.3	858.0	844.4	830.7
35°	1824.9	1182.3	872.4	880.1	886.9	884.4	876.7	852.9	820.5	814.6	809.5
37.5°	1891.3	1163.5	845.2	854.6	860.5	863.9	841.0	814.6	815.4	803.5	800.1
40°	1966.2	1151.6	823.1	827.3	828.2	839.2	811.2	798.4	804.4	796.7	801.8
42.5°	2062.4	1155.0	800.1	796.7	812.9	808.6	795.0	778.0	781.4	758.4	761.8
45°	2113.4	1178.0	786.5	771.2	789.0	788.2	770.3	754.1	733.7	689.4	691.1
47.5°	2147.5	1184.0	754.1	743.9	762.6	773.7	753.3	715.8	686.9	655.4	647.7
50°	2182.4	1195.0	738.8	717.5	725.2	751.6	726.0	690.3	662.2	634.1	638.4
52.5°	2213.0	1216.3	709.0	677.5	691.1	720.1	706.5	663.1	632.4	609.4	602.6
55°	2349.2	1264.0	658.8	617.9	650.3	686.9	679.2	626.5	593.3	581.3	579.6
56°	2370.5	1265.7	632.4	597.5	627.3	675.8	666.5	610.3	580.5	561.8	562.6
57.5°	2373.9	1245.3	595.0	578.8	604.3	659.7	647.7	597.5	556.7	539.6	534.5
60°	2088.8	972.0	548.2	537.9	567.7	610.3	606.0	562.6	516.7	497.1	506.4
62.5°	1424.0	712.4	511.6	509.8	525.2	566.9	555.8	516.7	478.4	465.6	459.6
65°	829.0	540.5	475.8	469.0	481.8	503.9	511.6	470.7	430.7	422.2	419.6
67.5°	489.4	446.9	429.8	418.8	414.5	428.1	434.1	410.3	370.3	358.3	368.6
70°	409.4	397.5	398.3	379.6	369.4	360.0	354.9	333.7	300.5	285.1	280.9
72.5°	353.2	348.1	344.7	327.7	318.3	297.1	274.9	253.6	229.0	216.2	217.0
75°	269.8	268.1	269.8	261.3	245.1	228.1	207.7	180.4	161.7	145.5	149.0
77.5°	160.9	166.0	168.5	165.1	158.3	143.0	130.2	112.4	94.5	81.7	80.0
80°	110.7	114.9	119.2	114.9	108.1	97.0	83.4	69.8	57.0	50.2	48.5
82.5°	84.3	88.5	91.1	86.8	78.3	66.4	57.0	47.7	37.5	30.6	28.9
85°	30.6	34.9	34.0	40.9	44.3	42.6	36.6	28.1	21.3	15.3	14.5
87.5°	8.5	7.7	8.5	8.5	8.5	7.7	6.8	6.8	6.8	4.3	3.4
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)