

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: P450941

Luminaire Tested: **GALN-SA1D-730-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450941
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1D-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7113 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

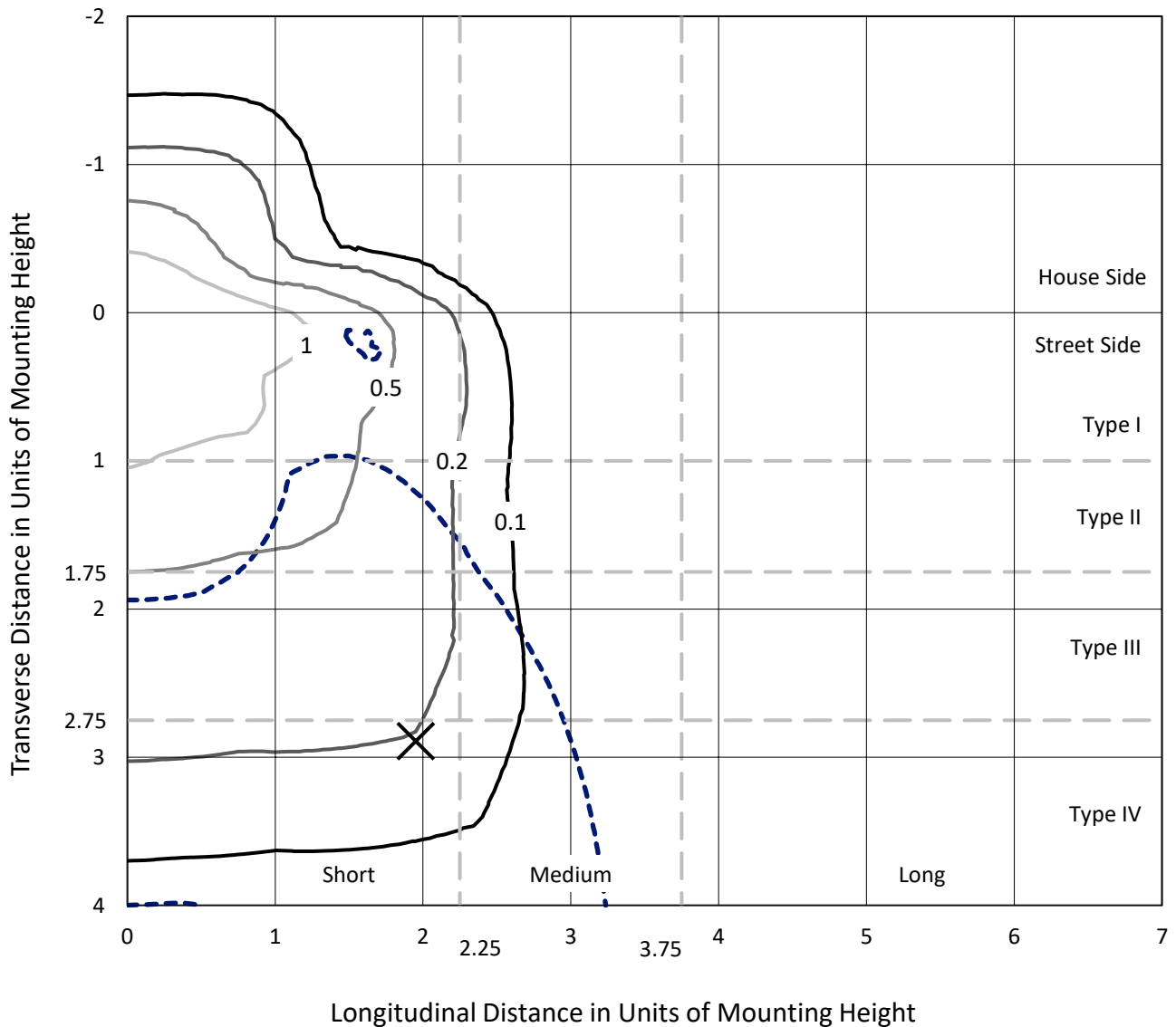
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

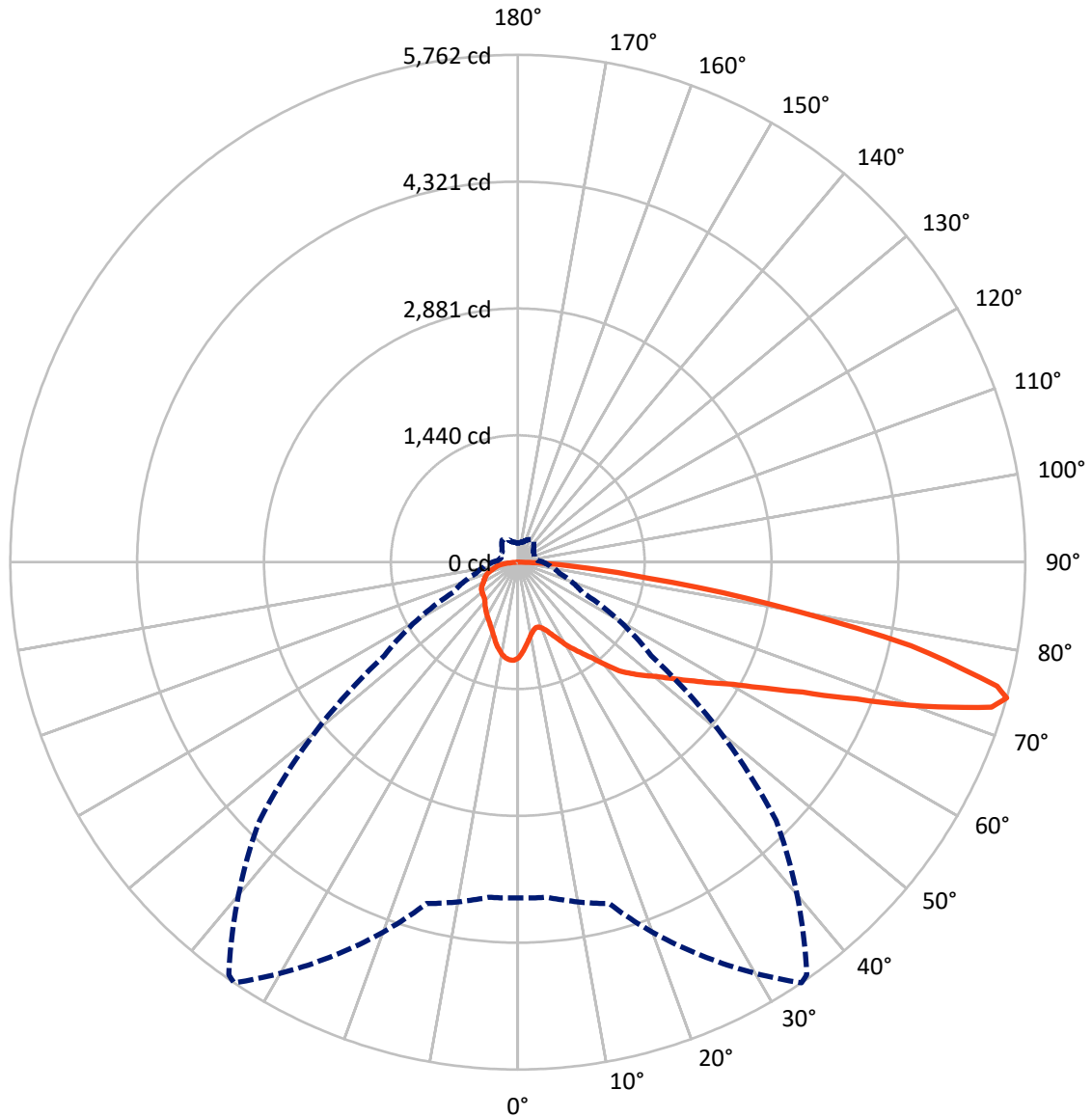
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1513.7	0.0	1513.7
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	5599.3	0.0	5599.3
	% Fixture	78.7	0.0	78.7
Total	Lumens	7113.0	0.0	7113.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.8	1.4
10°-20°	270.4	3.8
20°-30°	445.8	6.3
30°-40°	667.7	9.4
40°-50°	970.7	13.6
50°-60°	1355.8	19.1
60°-70°	1697.4	23.9
70°-80°	1403.6	19.7
80°-90°	202.8	2.9
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°	7113.0	100.0
0°-180°	7113.0	100.0

Coefficient of Utilization



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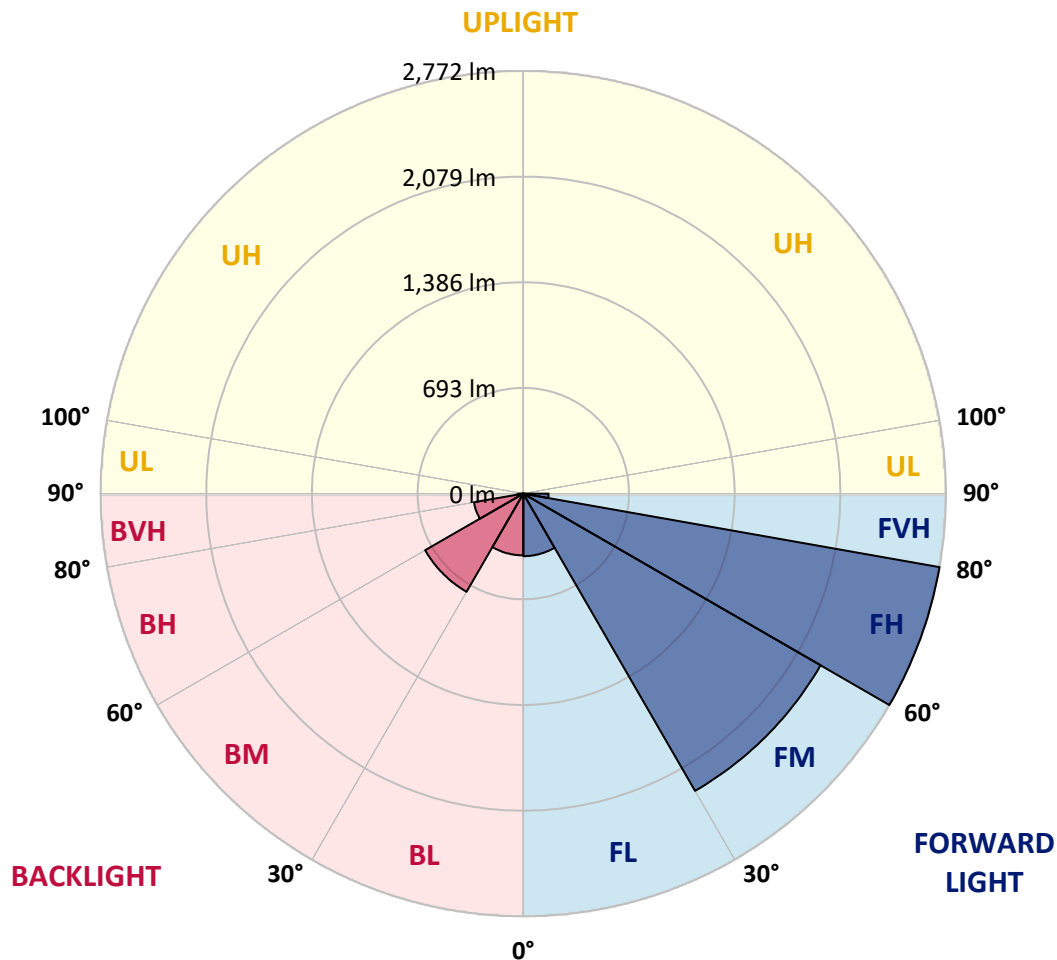
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	410.0	5.8			
FM (30°-60°)	2250.8	31.6			
FH (60°-80°)	2772.3	39.0			G2/5000
FVH (80°-90°)	166.2	2.3			G2/225
BL (0°-30°)	404.9	5.7	B1/500		
BM (30°-60°)	743.4	10.5	B1/1000		
BH (60°-80°)	328.8	4.6	B1/500		G1/500
BVH (80°-90°)	36.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1086.0	1086.0	1086.0	1086.0	1086.0	1086.0	1086.0	1086.0	1086.0	1086.0	1086.0
2.5°	1003.7	1008.8	1011.5	1021.4	1023.8	1026.9	1035.2	1046.2	1060.4	1073.0	1084.0
5°	920.1	928.0	932.7	941.4	958.3	959.9	982.0	1007.2	1036.0	1062.8	1084.8
7.5°	840.9	849.6	853.5	869.3	891.7	895.3	927.6	967.4	1015.5	1056.1	1090.0
10°	781.4	785.7	794.4	806.2	833.0	835.4	877.6	930.8	993.0	1052.9	1098.6
12.5°	749.1	751.5	753.4	766.0	792.4	796.0	840.1	900.4	975.3	1055.3	1112.8
15°	753.8	754.6	745.9	748.3	769.6	774.7	818.5	880.3	964.3	1061.2	1134.1
17.5°	793.6	790.9	769.6	758.6	773.5	775.9	814.1	872.4	959.1	1072.2	1156.2
20°	856.3	852.3	815.7	791.3	799.9	801.9	828.3	878.3	964.3	1090.3	1190.4
22.5°	934.3	932.7	877.2	847.6	847.2	847.2	861.0	899.6	979.6	1115.2	1226.3
25°	1043.5	1035.2	962.7	924.5	913.8	913.0	911.4	934.7	999.3	1141.6	1268.9
27.5°	1155.4	1141.2	1076.6	1017.8	995.0	992.2	982.0	984.3	1024.5	1171.5	1317.3
30°	1255.9	1246.8	1186.1	1121.1	1093.9	1087.6	1059.2	1046.2	1066.7	1225.5	1394.6
32.5°	1332.7	1327.2	1279.9	1220.8	1180.6	1179.4	1138.0	1127.4	1132.5	1290.9	1482.8
35°	1395.0	1396.9	1372.9	1321.7	1275.6	1268.9	1241.3	1227.9	1212.9	1385.5	1594.0
37.5°	1480.1	1484.4	1482.8	1438.7	1382.3	1383.9	1377.6	1355.5	1315.7	1491.1	1717.3
40°	1573.9	1577.0	1576.6	1559.7	1530.1	1531.7	1529.3	1504.1	1444.6	1625.5	1854.4
42.5°	1703.5	1688.5	1649.5	1666.5	1683.8	1691.3	1707.4	1683.4	1601.8	1768.9	1983.3
45°	1848.5	1820.1	1731.9	1739.8	1804.0	1818.2	1907.2	1874.1	1772.5	1933.6	2135.0
47.5°	1939.9	1912.0	1837.5	1835.9	1921.0	1934.8	2092.4	2080.2	1927.7	2111.3	2320.2
50°	2021.5	2017.6	1933.6	1953.7	2036.9	2057.4	2294.2	2282.8	2082.6	2321.0	2521.9
52.5°	2142.5	2110.6	2043.6	2084.9	2194.9	2221.7	2494.4	2460.9	2224.8	2506.2	2717.8
55°	2196.9	2189.4	2185.4	2221.3	2372.2	2391.5	2689.0	2612.2	2346.2	2663.0	2866.7
57.5°	2342.3	2328.5	2367.5	2391.9	2581.1	2610.6	2892.4	2770.2	2452.6	2787.5	2939.3
60°	2530.6	2523.1	2559.0	2603.1	2814.3	2859.3	3124.1	2905.0	2538.1	2850.2	2899.5
62.5°	2812.0	2811.2	2804.5	2899.1	3144.9	3186.3	3390.1	3036.2	2551.5	2803.3	2693.8
65°	3215.5	3201.3	3143.0	3246.2	3556.3	3604.8	3667.1	3109.5	2470.7	2562.5	2268.2
67.5°	3637.5	3636.7	3589.4	3723.4	4147.0	4197.1	4013.4	3093.3	2246.5	2075.9	1610.9
70°	3987.4	3970.5	4030.8	4387.8	4901.6	4959.6	4316.5	2903.0	1789.4	1370.9	957.2
72.5°	4071.4	4072.2	4197.5	4900.1	5626.3	5635.4	4425.6	2352.9	1197.5	756.2	478.8
74°	3812.9	3819.6	4013.8	4925.7	5761.5	5720.5	4146.6	1849.3	809.8	493.8	345.2
75°	3480.3	3438.1	3719.1	4755.1	5621.2	5577.1	3820.0	1484.0	617.9	394.4	302.2
77.5°	1860.7	1903.7	2337.1	3548.5	4566.7	4515.9	2590.1	711.7	333.8	274.7	217.5
80°	662.4	730.6	1026.9	1856.8	2927.8	2943.6	1236.1	326.3	234.9	202.5	153.7
82.5°	270.3	277.8	440.9	824.0	1486.8	1501.0	504.8	193.9	167.9	139.5	91.8
85°	105.6	108.8	195.1	370.4	634.4	675.8	174.6	102.5	103.2	80.0	46.9
87.5°	35.5	40.2	80.0	123.3	215.5	211.2	50.8	30.3	37.0	34.7	14.6
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°	1086.0	1086.0	1086.0	1086.0	1086.0	1086.0	1086.0	1086.0	1086.0	1086.0	1086.0
2.5°	1089.6	1097.0	1102.2	1107.7	1112.8	1114.4	1113.2	1116.8	1117.1	1117.5	1117.9
5°	1095.9	1106.1	1116.0	1121.5	1123.8	1121.9	1115.2	1111.6	1108.5	1106.1	1106.9
7.5°	1104.5	1119.1	1128.2	1130.5	1124.2	1115.2	1098.6	1085.6	1077.3	1071.8	1071.4
10°	1117.9	1132.1	1139.6	1132.9	1115.6	1093.5	1067.5	1043.1	1024.5	1019.0	1018.6
12.5°	1134.9	1151.0	1150.6	1130.9	1100.6	1061.2	1019.0	990.7	965.4	952.8	957.9
15°	1156.9	1169.2	1157.7	1122.3	1074.2	1020.2	968.2	929.6	901.2	887.8	888.6
17.5°	1182.6	1193.2	1162.9	1106.9	1037.2	967.8	907.5	870.9	848.4	838.5	837.8
20°	1214.5	1217.6	1162.9	1080.1	989.5	906.7	849.2	823.6	811.0	805.8	807.4
22.5°	1248.8	1242.5	1156.6	1042.3	926.8	842.9	804.3	792.8	786.5	785.7	786.5
25°	1287.4	1269.6	1143.5	991.0	861.4	787.7	765.3	767.2	768.4	768.4	771.2
27.5°	1334.7	1299.2	1121.9	926.4	785.0	736.5	730.2	744.0	750.3	751.5	753.4
30°	1396.9	1331.5	1086.0	845.6	719.9	690.4	701.4	719.9	727.0	731.4	730.6
32.5°	1471.0	1367.0	1037.5	764.9	667.5	658.1	671.5	690.4	698.3	700.6	697.5
35°	1558.1	1407.2	973.7	689.2	621.8	627.3	643.1	649.0	656.1	656.1	657.7
37.5°	1651.9	1439.5	895.7	619.8	586.4	606.4	617.9	612.4	609.2	605.3	607.2
40°	1747.2	1463.5	794.4	551.3	550.9	584.8	587.9	572.2	559.6	555.6	553.6
42.5°	1830.4	1478.5	703.0	498.1	517.4	563.5	565.9	540.6	520.5	508.7	504.8
45°	1928.5	1495.8	613.5	454.0	486.3	546.6	552.5	518.6	489.0	464.2	457.9
47.5°	2062.9	1535.2	543.0	419.7	463.8	535.9	544.2	500.4	461.4	429.1	424.0
50°	2214.6	1589.2	488.2	396.4	446.5	526.5	536.7	481.9	435.8	400.0	396.0
52.5°	2353.7	1618.4	440.9	375.5	429.5	509.1	526.9	468.5	410.6	370.8	367.3
55°	2429.7	1571.1	394.4	355.0	406.3	486.7	513.1	450.0	386.2	355.4	350.3
57.5°	2440.0	1473.4	352.3	333.0	381.8	459.1	487.4	427.5	370.4	344.8	340.5
60°	2360.8	1327.6	319.6	314.8	357.0	427.9	458.7	407.8	354.3	333.0	328.6
62.5°	2163.8	1169.2	296.7	298.3	331.8	395.2	437.4	388.9	338.9	320.0	316.0
65°	1824.9	965.0	274.7	281.4	309.3	369.6	418.1	373.2	323.5	310.1	306.6
67.5°	1267.7	696.7	256.5	263.6	288.1	343.6	395.6	356.2	306.2	299.1	293.6
70°	701.8	428.7	235.3	243.5	266.0	314.5	370.4	330.6	281.0	277.8	269.9
72.5°	368.8	273.1	211.2	220.3	236.0	277.0	331.8	302.6	256.1	242.7	232.5
74°	288.1	223.8	195.1	204.5	215.2	255.0	308.9	282.5	238.4	222.6	214.8
75°	251.0	199.4	181.3	193.5	202.9	240.0	291.2	268.4	228.6	213.6	206.5
77.5°	177.3	149.3	148.2	162.7	167.9	210.4	262.4	244.3	203.7	188.0	181.3
80°	124.5	111.9	117.4	126.5	133.6	186.0	243.5	211.2	167.1	148.6	146.2
82.5°	81.2	73.3	83.9	92.2	94.6	137.1	196.6	160.4	121.8	98.9	91.8
85°	37.4	36.6	48.1	46.9	46.5	67.0	116.6	93.8	70.1	52.4	49.3
87.5°	9.5	9.1	11.8	9.9	11.8	10.2	10.6	2.8	0.4	0.0	0.0
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)