

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: P522653

Luminaire Tested: **GALN-SA2A-740-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522653
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-740-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9203 lumens
Efficiency: N/A
Efficacy: 146.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

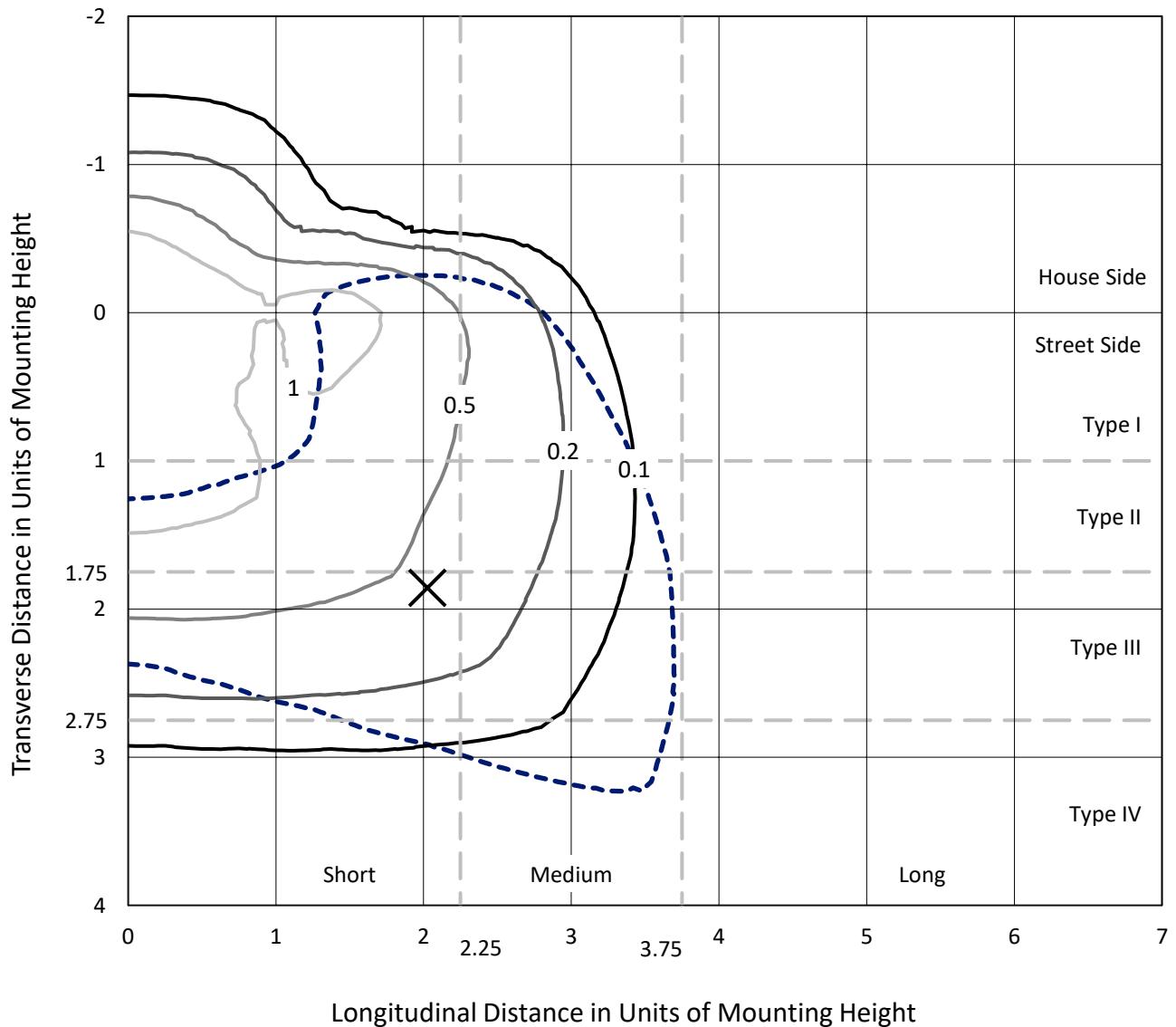
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

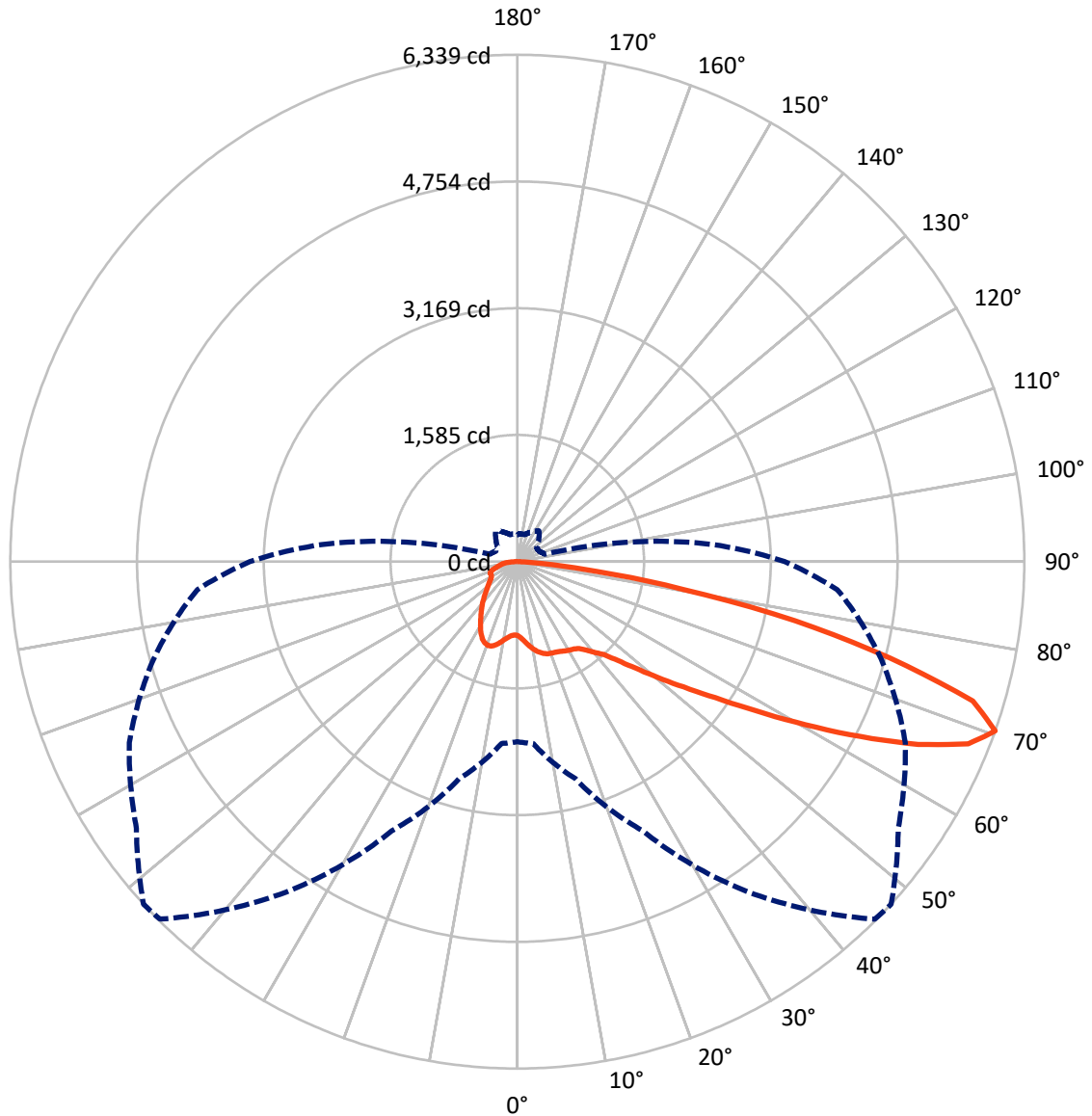
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2083.7	0.0	2083.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	7119.3	0.0	7119.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	9203.0	0.0	9203.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.2	1.0
10°-20°	318.4	3.5
20°-30°	529.4	5.8
30°-40°	750.4	8.2
40°-50°	1107.8	12.0
50°-60°	1918.7	20.8
60°-70°	2710.2	29.4
70°-80°	1558.0	16.9
80°-90°	215.0	2.3
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°	9203.0	100.0
0°-180°	9203.0	100.0

Coefficient of Utilization



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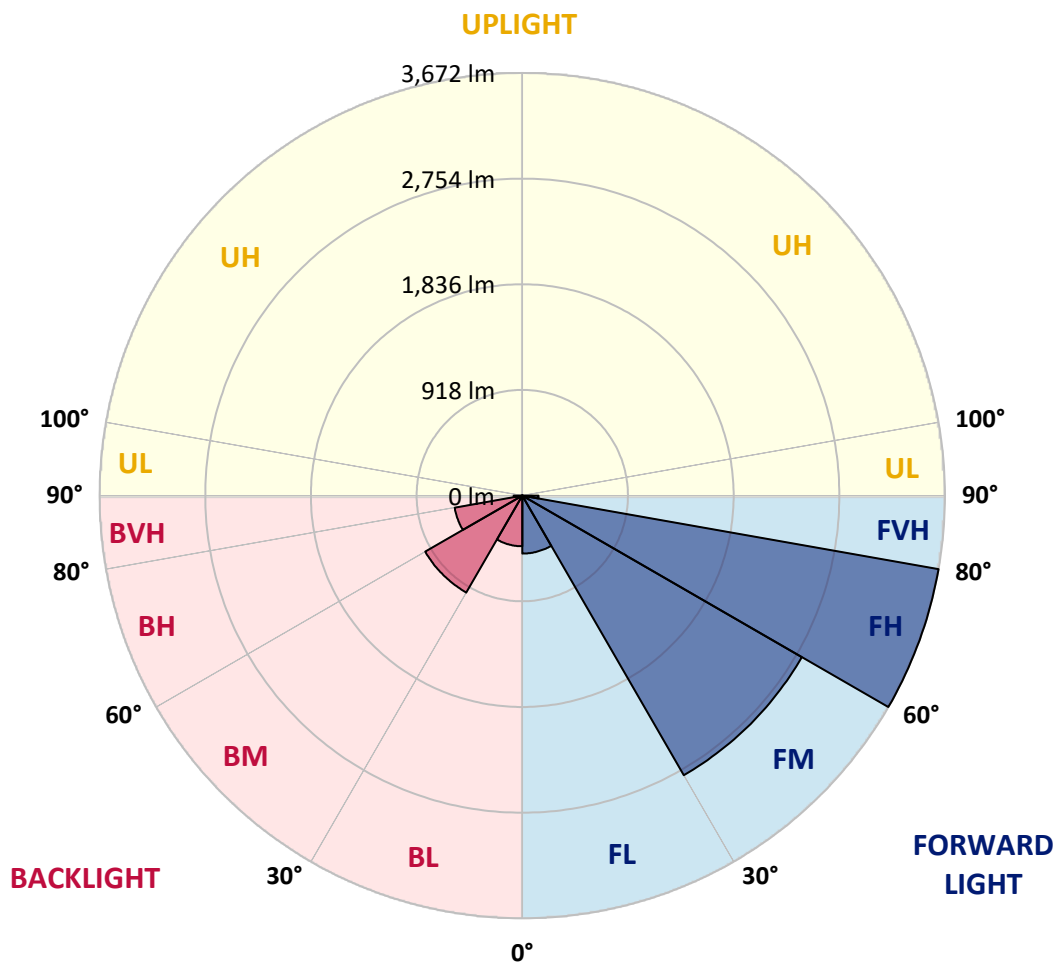
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	503.3	5.5			
FM	(30°-60°)	2804.0	30.5			
FH	(60°-80°)	3671.6	39.9			G2/5000
FVH	(80°-90°)	140.4	1.5			G2/225
BL	(0°-30°)	439.8	4.8	B1/500		
BM	(30°-60°)	972.9	10.6	B1/1000		
BH	(60°-80°)	596.5	6.5	B2/1000		G2/1000
BVH	(80°-90°)	74.5	0.8			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.9
2.5°	983.5	980.0	979.5	972.1	968.2	960.8	957.9	951.0	942.6	934.2	926.3
5°	1060.8	1060.8	1057.3	1047.0	1030.7	1014.0	1006.6	993.3	969.7	950.5	934.2
7.5°	1140.1	1141.0	1134.2	1118.9	1095.7	1068.7	1061.8	1042.1	1008.6	980.5	956.4
10°	1208.5	1208.5	1199.2	1178.5	1149.4	1119.9	1113.0	1090.8	1053.4	1018.4	986.9
12.5°	1260.7	1260.7	1248.4	1221.3	1189.8	1163.2	1155.3	1134.2	1099.2	1060.3	1020.4
15°	1294.7	1292.2	1278.4	1247.9	1217.4	1194.2	1188.8	1171.1	1139.1	1099.7	1054.9
17.5°	1296.2	1295.2	1281.9	1256.3	1229.7	1213.9	1210.5	1198.7	1173.6	1136.1	1088.8
20°	1267.6	1269.6	1260.7	1242.5	1229.7	1222.8	1221.3	1217.4	1199.7	1164.7	1117.4
22.5°	1237.1	1240.5	1232.2	1222.3	1221.3	1228.2	1229.2	1230.2	1218.9	1184.9	1141.5
25°	1229.7	1232.2	1223.8	1214.9	1220.3	1238.6	1242.5	1246.4	1237.6	1209.0	1170.1
27.5°	1267.1	1265.2	1248.9	1229.7	1233.1	1257.8	1263.2	1267.6	1263.2	1238.6	1205.6
30°	1373.0	1366.6	1334.1	1278.0	1260.2	1277.5	1282.9	1295.2	1295.2	1277.0	1244.0
32.5°	1550.3	1538.0	1478.4	1368.1	1306.5	1296.2	1301.6	1321.8	1332.1	1317.8	1281.9
35°	1765.5	1752.7	1667.5	1519.3	1391.2	1333.6	1332.1	1354.8	1382.4	1350.3	1303.6
37.5°	1981.7	1968.4	1866.0	1699.5	1514.8	1412.4	1403.5	1411.4	1423.2	1364.6	1333.6
40°	2197.9	2182.1	2092.5	1900.9	1666.0	1516.8	1493.7	1458.2	1453.3	1411.4	1391.7
42.5°	2412.1	2397.8	2352.5	2127.0	1847.2	1618.7	1583.3	1522.2	1540.9	1515.8	1498.6
45°	2628.3	2629.3	2581.0	2380.6	2065.9	1806.9	1759.1	1663.6	1707.9	1698.5	1708.4
47.5°	2819.9	2817.4	2800.2	2626.8	2337.3	2049.2	1987.6	1876.8	1952.6	1987.1	2062.5
50°	3005.5	3004.1	3005.0	2906.1	2652.4	2337.3	2269.3	2153.1	2324.0	2443.6	2578.6
52.5°	3271.5	3279.8	3220.2	3194.1	3035.6	2677.5	2602.7	2482.5	2762.7	2951.4	3214.8
55°	3538.4	3531.5	3484.7	3511.8	3436.4	3080.4	3002.1	2906.5	3251.3	3457.6	3853.6
57.5°	3695.5	3697.9	3745.7	3878.2	3931.4	3582.7	3511.8	3437.9	3800.4	3946.6	4421.9
60°	3836.8	3848.1	3985.5	4235.7	4380.0	4199.8	4136.7	4064.8	4304.2	4362.3	4915.3
62.5°	3881.1	3916.1	4155.9	4530.2	4817.3	4896.1	4817.8	4659.2	4783.8	4761.2	5249.7
65°	3660.0	3707.8	4137.7	4640.5	5207.9	5557.0	5507.3	5212.8	5192.6	5056.2	5304.4
67.5°	3077.9	3125.7	3677.8	4409.1	5369.4	6129.3	6079.5	5616.6	5440.8	5083.7	4890.7
70°	2252.1	2282.1	2810.0	3712.2	5044.8	6321.3	6338.6	5813.6	5352.1	4709.0	4015.6
72.5°	1297.7	1364.1	1734.0	2611.6	4121.5	5835.7	5955.4	5403.9	4791.7	3928.4	2807.6
75°	558.0	559.4	801.7	1440.5	2791.3	4690.8	4806.5	4479.5	3763.0	2716.5	1499.1
77.5°	265.4	270.4	352.6	643.2	1536.5	3240.9	3553.2	3164.6	2406.7	1305.0	566.3
80°	172.4	175.8	215.7	319.1	753.5	1879.3	2096.9	1825.6	1061.8	466.4	244.3
82.5°	104.4	105.4	144.3	195.0	414.7	851.0	1003.2	792.4	453.1	279.2	143.8
85°	63.5	64.0	87.7	120.7	251.7	294.0	301.9	299.4	265.9	182.7	76.8
87.5°	30.5	31.5	45.3	57.1	99.0	91.1	86.2	100.0	125.6	98.5	33.0
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°	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.9
2.5°	922.9	921.4	918.0	916.5	915.5	916.0	915.5	915.5	916.0	916.0	916.0
5°	927.3	924.9	919.4	919.4	922.4	929.3	935.7	940.6	946.0	945.5	945.5
7.5°	946.5	942.1	935.7	937.7	945.0	955.9	967.2	978.0	988.9	989.9	989.4
10°	974.6	970.2	963.3	965.7	977.5	993.8	1008.1	1023.8	1035.7	1039.1	1038.1
12.5°	1006.6	997.7	991.8	998.7	1017.4	1039.1	1052.9	1064.7	1073.1	1078.0	1076.0
15°	1039.1	1030.7	1023.8	1038.1	1060.8	1081.0	1087.9	1089.8	1091.3	1096.2	1095.2
17.5°	1070.6	1059.3	1056.8	1075.6	1097.2	1106.1	1102.1	1093.8	1087.4	1091.3	1090.8
20°	1098.7	1089.8	1088.8	1107.6	1115.9	1107.6	1090.8	1076.0	1064.7	1065.7	1065.2
22.5°	1125.3	1118.4	1119.4	1127.3	1114.0	1085.4	1057.8	1037.6	1025.3	1027.8	1029.3
25°	1154.8	1147.9	1150.4	1137.6	1093.8	1044.0	1004.1	986.9	982.0	986.9	990.4
27.5°	1193.3	1188.8	1187.3	1138.1	1057.8	983.0	937.7	931.3	935.7	946.5	951.9
30°	1234.6	1234.6	1226.7	1129.7	1008.6	909.6	870.2	871.2	886.4	901.7	907.1
32.5°	1274.5	1282.9	1258.3	1107.1	945.0	838.2	808.1	809.1	822.4	841.1	846.1
35°	1307.5	1331.6	1285.3	1065.7	870.2	778.1	755.4	742.1	742.6	756.9	760.9
37.5°	1352.8	1397.6	1301.1	1004.1	790.4	726.9	701.3	678.1	662.9	657.0	657.0
40°	1431.6	1497.6	1305.0	913.0	715.1	678.1	641.7	614.1	584.6	558.0	553.0
42.5°	1565.1	1648.3	1297.2	808.1	647.1	624.4	589.0	555.0	514.1	476.7	473.8
45°	1801.4	1844.3	1276.0	699.3	586.5	572.7	538.3	501.3	458.0	424.5	422.0
47.5°	2180.2	2119.6	1247.9	602.8	531.4	527.4	500.8	458.0	414.7	391.5	389.0
50°	2733.2	2553.0	1244.0	532.9	487.1	489.0	467.4	428.0	390.0	370.8	367.9
52.5°	3399.0	3076.4	1270.1	483.6	448.1	455.5	444.7	408.3	374.8	358.5	355.6
55°	4045.1	3547.2	1285.8	445.2	411.7	425.5	427.0	396.4	365.9	349.7	347.7
57.5°	4569.6	3901.8	1215.9	410.2	380.2	401.4	412.2	389.5	361.5	349.2	347.2
60°	4934.5	4069.3	1016.9	379.2	357.0	382.2	406.8	390.0	372.3	373.8	374.8
62.5°	5050.8	3994.9	762.8	356.1	341.3	375.8	415.6	410.2	392.0	403.3	405.3
65°	4858.2	3687.6	553.0	337.8	327.5	380.2	442.2	425.0	385.1	393.5	393.5
67.5°	4213.6	3176.9	430.4	321.1	311.7	388.6	468.8	423.5	368.9	378.7	369.8
70°	3342.4	2457.4	358.5	302.4	295.0	376.2	471.3	408.3	349.7	351.6	334.9
72.5°	2218.1	1615.8	308.3	284.6	269.4	338.3	451.1	388.6	330.9	319.6	302.9
75°	1086.9	805.7	268.9	262.5	235.9	294.5	423.5	369.8	310.7	293.0	283.7
77.5°	421.1	342.8	229.5	234.4	205.4	259.5	387.1	343.3	284.2	260.0	252.6
80°	204.4	194.5	188.1	195.5	168.9	221.1	353.6	320.1	259.5	232.9	222.1
82.5°	127.1	120.2	144.3	152.2	130.0	201.9	335.4	300.4	228.5	193.0	184.2
85°	64.5	68.9	96.5	103.9	93.1	160.5	276.3	225.6	165.0	136.9	137.9
87.5°	24.6	33.0	50.7	54.7	49.7	84.7	152.2	131.5	105.9	71.9	66.5
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)