

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: P450921

Luminaire Tested: **GALN-SA1D-730-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450921
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
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-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5834 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

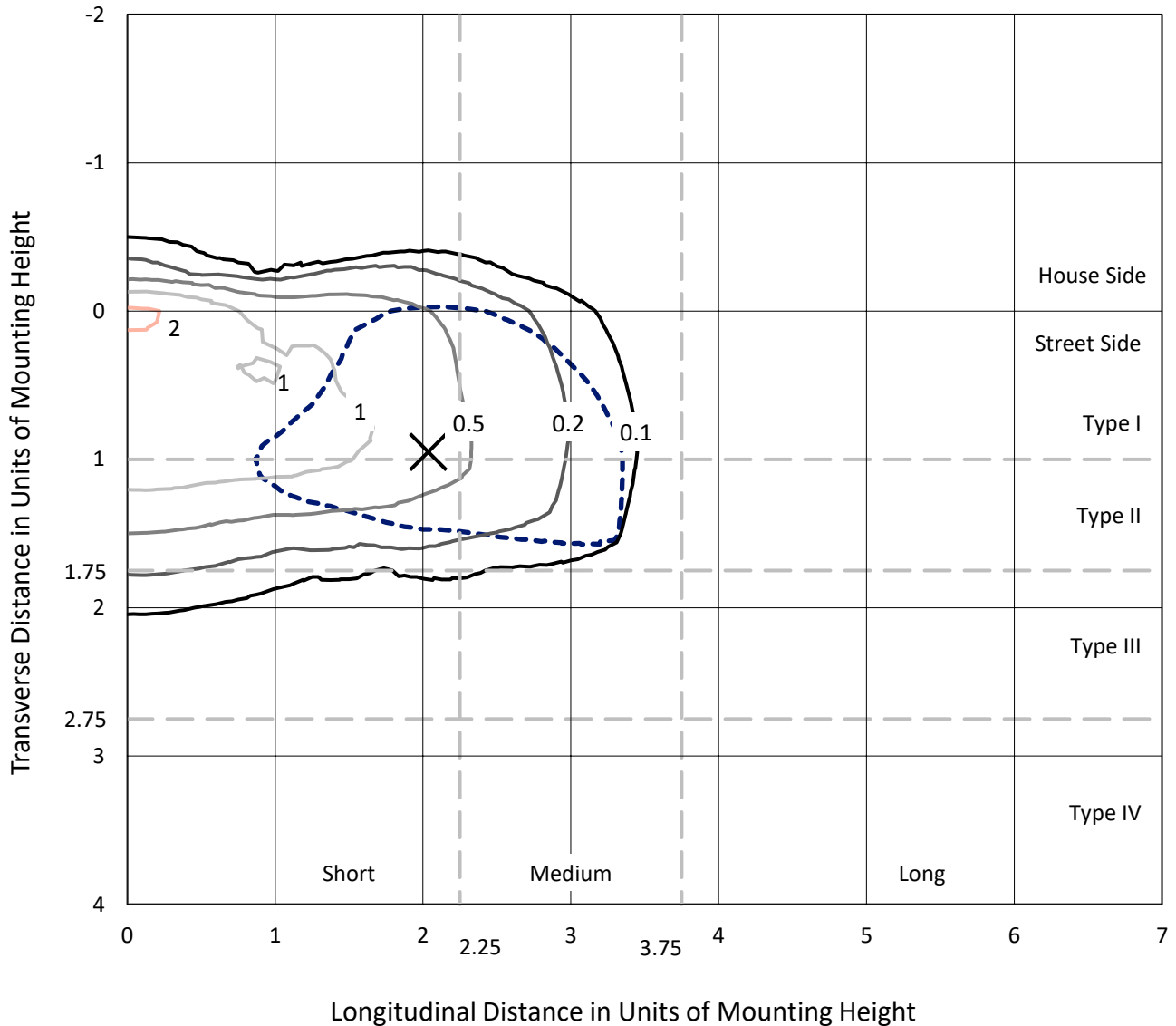
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

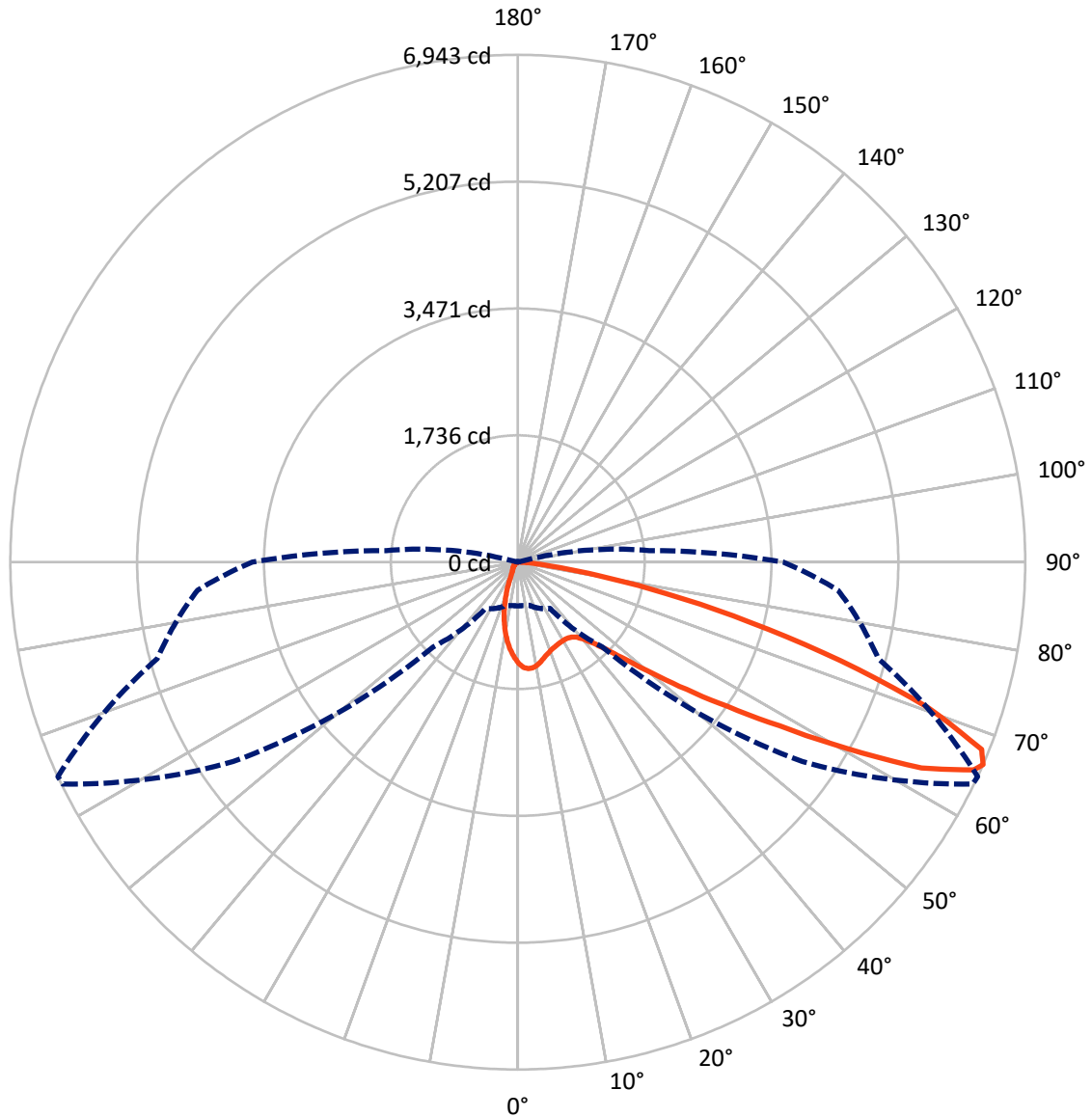
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	603.3	0.0	603.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	5230.7	0.0	5230.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	5834.0	0.0	5834.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.1	1.9
10°-20°	246.5	4.2
20°-30°	353.2	6.1
30°-40°	515.8	8.8
40°-50°	864.9	14.8
50°-60°	1443.4	24.7
60°-70°	1532.1	26.3
70°-80°	693.9	11.9
80°-90°	71.0	1.2
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°	5834.0	100.0
0°-180°	5834.0	100.0

Coefficient of Utilization



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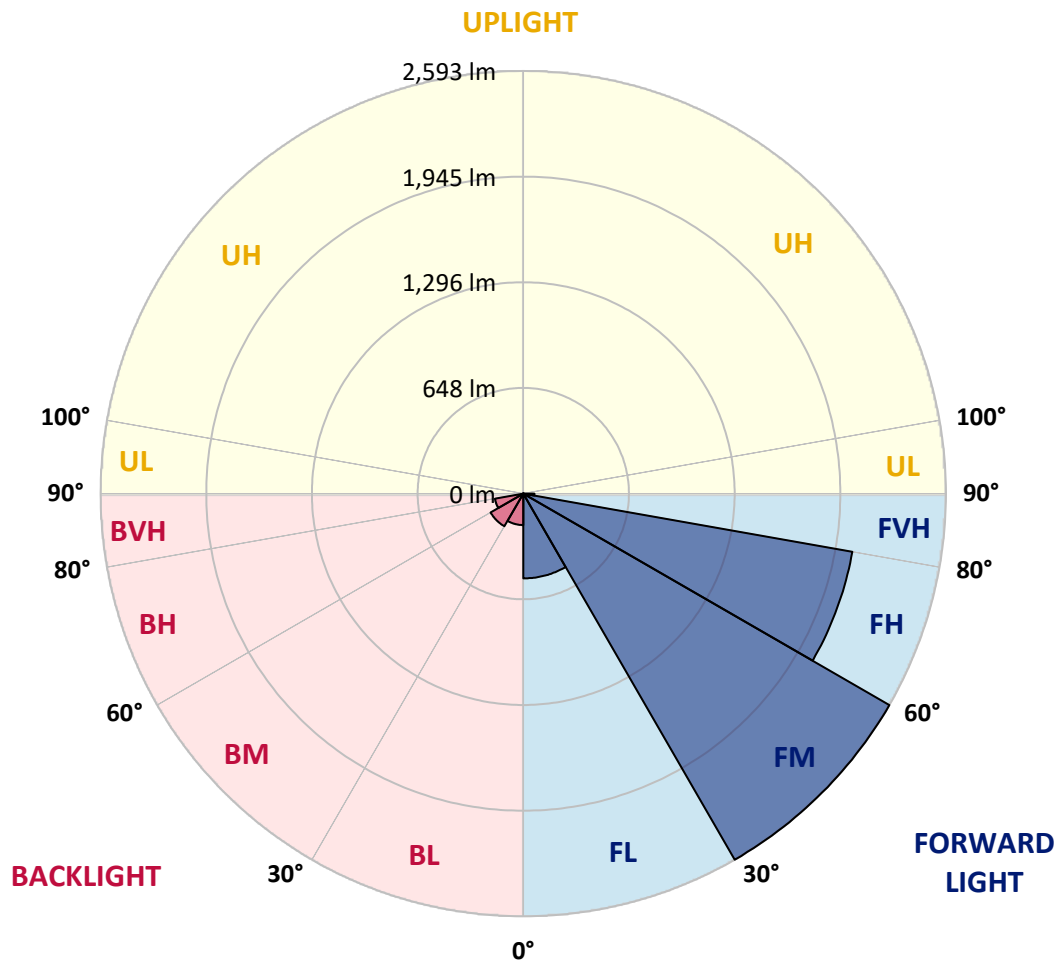
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	519.8	8.9			
FM (30°-60°)	2592.8	44.4			
FH (60°-80°)	2049.3	35.1			G2/5000
FVH (80°-90°)	68.7	1.2			G1/100
BL (0°-30°)	193.0	3.3	B1/500		
BM (30°-60°)	231.4	4.0	B1/1000		
BH (60°-80°)	176.7	3.0	B1/500		G1/500
BVH (80°-90°)	2.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1383.5	1383.5	1383.5	1383.5	1383.5	1383.5	1383.5	1383.5	1383.5	1383.5	1383.5
2.5°	1457.9	1459.5	1461.5	1464.2	1466.2	1460.3	1452.0	1442.6	1440.6	1420.5	1396.1
5°	1379.9	1382.3	1399.6	1409.1	1430.3	1449.7	1461.9	1463.4	1462.7	1443.7	1404.7
7.5°	1268.8	1275.5	1292.4	1309.0	1348.8	1385.4	1428.8	1459.1	1461.1	1456.0	1407.5
10°	1178.6	1182.9	1191.6	1224.3	1257.4	1313.3	1374.0	1431.1	1435.9	1456.4	1405.1
12.5°	1108.0	1114.3	1125.0	1150.2	1190.0	1242.8	1311.7	1388.6	1398.4	1448.9	1398.4
15°	1058.8	1061.9	1072.6	1097.4	1136.0	1184.9	1254.6	1344.1	1352.7	1439.0	1397.2
17.5°	1035.5	1039.1	1046.6	1066.3	1098.2	1143.5	1211.7	1308.2	1319.2	1432.7	1401.6
20°	1041.8	1045.0	1045.4	1055.6	1077.3	1115.5	1180.1	1274.7	1288.9	1428.8	1408.7
22.5°	1077.7	1078.1	1073.4	1068.6	1076.1	1103.7	1160.8	1253.4	1268.0	1428.0	1416.9
25°	1131.3	1132.5	1124.6	1108.0	1093.1	1107.2	1156.5	1239.6	1252.6	1426.0	1422.1
27.5°	1205.4	1205.0	1202.6	1175.0	1132.5	1123.0	1160.0	1232.1	1243.2	1420.5	1424.0
30°	1309.0	1305.8	1300.7	1269.6	1204.6	1161.2	1175.0	1227.4	1237.7	1412.6	1418.9
32.5°	1411.0	1422.9	1422.1	1392.5	1311.3	1229.4	1206.1	1233.7	1241.2	1407.5	1411.4
35°	1530.0	1529.6	1560.0	1549.0	1454.0	1316.5	1259.3	1254.6	1260.5	1411.0	1407.9
37.5°	1640.4	1650.6	1697.9	1709.3	1622.6	1439.4	1334.6	1299.5	1301.5	1435.1	1416.6
40°	1777.9	1797.6	1868.1	1906.3	1829.9	1621.8	1445.7	1381.9	1382.3	1494.2	1449.3
42.5°	1955.2	1986.3	2052.1	2116.0	2075.0	1837.8	1612.4	1512.3	1511.5	1598.2	1524.1
45°	2170.7	2192.4	2267.3	2368.5	2342.5	2139.2	1855.1	1714.4	1704.2	1768.8	1656.9
47.5°	2356.7	2386.3	2462.3	2577.8	2696.0	2507.2	2145.1	1992.2	1985.5	2040.3	1884.7
50°	2437.9	2463.9	2543.9	2705.8	2992.3	2990.3	2577.0	2397.7	2386.3	2415.8	2236.9
52.5°	2348.8	2373.3	2454.0	2655.8	3131.8	3579.0	3202.7	2906.4	2892.6	2854.8	2657.8
55°	2043.9	2064.0	2183.3	2415.0	3078.2	3971.5	4064.9	3534.9	3481.3	3334.3	3134.2
57.5°	1627.4	1617.1	1691.2	1960.3	2763.8	4103.1	4949.9	4317.8	4222.1	3748.8	3537.3
60°	1127.7	1159.3	1189.2	1366.5	2078.1	3874.9	5500.3	5302.1	5176.0	4156.7	3923.4
62.5°	829.0	849.9	869.6	951.6	1306.6	3094.0	5597.7	6313.2	6201.3	4589.7	4291.8
65°	655.7	657.3	665.1	745.9	861.0	2011.9	5129.9	6883.4	6854.6	5006.6	4441.2
66°	597.4	597.8	610.0	696.7	772.7	1638.4	4755.2	6926.7	6942.5	5106.7	4397.4
67.5°	522.1	520.5	538.3	626.1	703.7	1181.3	4084.6	6751.0	6844.4	5183.5	4240.2
70°	404.7	402.7	424.4	525.2	648.2	788.1	2714.9	5796.6	5947.2	5026.3	3751.6
72.5°	269.5	271.1	308.1	414.5	618.6	693.9	1633.3	4409.6	4622.4	4150.8	2951.3
75°	157.2	160.0	202.1	308.1	537.1	661.6	924.4	3144.4	3280.3	2866.2	1838.6
77.5°	82.4	83.5	113.1	203.3	411.8	614.3	615.9	2008.8	2072.6	1392.9	727.8
80°	43.7	42.6	60.7	122.5	283.3	539.4	499.6	1063.5	1105.7	413.7	184.0
82.5°	16.5	18.1	32.3	80.4	167.5	387.3	430.3	470.1	455.5	91.0	77.2
85°	3.2	3.9	13.8	47.7	84.3	161.9	317.2	230.5	213.6	34.3	44.5
87.5°	0.4	0.8	3.9	11.4	12.2	54.8	93.8	63.8	55.2	12.6	18.5
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°	1383.5	1383.5	1383.5	1383.5	1383.5	1383.5	1383.5	1383.5	1383.5	1383.5	1383.5
2.5°	1384.2	1373.6	1338.1	1303.1	1267.2	1234.9	1212.8	1177.0	1167.9	1154.9	1147.4
5°	1381.5	1356.7	1288.5	1214.0	1144.7	1069.8	1012.7	957.5	928.0	913.0	907.5
7.5°	1373.6	1334.2	1227.8	1111.2	1000.1	888.2	790.8	716.7	669.1	636.4	614.3
10°	1357.8	1303.5	1157.3	996.9	829.0	681.3	558.0	464.2	391.7	368.8	369.6
12.5°	1341.7	1269.2	1078.5	870.0	662.0	475.6	344.8	270.7	236.0	224.6	222.2
15°	1326.7	1236.5	1001.2	747.1	492.9	308.1	222.2	196.2	186.8	184.8	184.4
17.5°	1318.8	1206.1	918.9	606.4	344.0	209.2	178.1	171.0	168.3	166.3	165.5
20°	1312.1	1179.7	840.1	474.8	235.2	171.4	159.6	152.9	148.2	146.2	145.0
22.5°	1307.4	1152.6	758.5	367.6	180.1	152.1	141.5	132.8	126.1	123.7	122.2
25°	1300.3	1122.6	676.2	268.7	151.7	135.2	122.9	112.7	104.0	99.7	98.9
27.5°	1290.1	1088.7	585.9	199.0	135.5	120.2	105.2	92.6	83.9	79.2	79.6
30°	1273.5	1053.3	495.7	158.0	122.5	104.8	88.7	76.4	68.2	64.6	64.2
32.5°	1253.8	1010.3	412.9	135.5	110.7	91.0	74.1	63.4	57.1	54.4	54.0
35°	1235.3	967.0	328.6	121.8	98.5	78.4	62.3	53.2	48.5	46.1	46.5
37.5°	1225.1	928.3	256.1	110.7	88.7	67.4	53.6	45.7	41.4	39.4	39.0
40°	1231.8	896.8	203.7	100.9	77.6	57.9	46.1	39.4	35.1	32.3	32.3
42.5°	1263.3	883.0	164.3	91.4	67.4	50.0	40.2	33.9	29.2	26.4	26.8
45°	1359.4	897.6	137.5	82.7	57.9	43.3	34.7	28.0	23.6	21.7	21.3
47.5°	1519.0	952.4	119.0	73.7	49.6	37.0	29.2	23.2	18.9	17.3	16.9
50°	1798.0	1065.5	105.2	64.6	42.2	31.5	24.0	18.5	15.0	13.4	13.4
52.5°	2181.8	1312.1	95.4	54.4	35.5	26.8	19.7	15.0	11.8	10.6	10.2
55°	2582.9	1572.2	90.2	45.7	29.6	22.1	15.8	11.8	9.1	7.9	7.5
57.5°	2968.7	1776.3	84.3	37.0	23.6	16.9	12.2	9.1	6.3	5.5	5.1
60°	3338.7	1941.4	71.7	29.6	18.5	12.2	9.1	6.3	4.3	3.5	3.5
62.5°	3669.6	2037.6	56.3	23.6	14.2	8.7	5.9	4.7	3.2	2.4	2.4
65°	3708.3	1912.6	42.6	18.1	10.2	5.5	3.5	3.5	2.4	1.6	1.6
66°	3630.6	1806.7	37.4	16.5	9.1	4.7	3.2	2.8	2.0	1.2	1.2
67.5°	3457.3	1625.8	32.3	14.2	7.5	3.5	2.4	2.4	1.6	0.8	0.8
70°	2987.2	1327.9	25.6	10.6	5.5	2.8	1.6	1.6	1.2	0.8	0.8
72.5°	2276.7	991.4	20.9	7.9	3.9	2.0	1.2	1.2	1.2	0.8	0.8
75°	1373.2	533.9	16.2	5.9	3.5	1.6	0.8	1.2	1.6	1.2	0.8
77.5°	505.9	181.7	12.6	4.7	2.8	1.6	0.8	0.8	1.6	1.2	1.2
80°	124.1	47.3	9.1	3.9	2.8	1.6	0.8	0.8	1.6	1.6	1.6
82.5°	57.5	20.1	6.3	3.5	2.8	1.6	0.8	0.8	1.2	1.6	1.6
85°	33.1	9.5	5.1	3.9	2.8	1.6	0.8	0.8	1.2	1.6	1.6
87.5°	13.4	4.7	4.7	3.9	3.2	2.0	0.8	0.8	0.8	1.2	1.2
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)