

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: P450459

Luminaire Tested: **GALN-SA1B-730-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450459
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-730-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4338 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

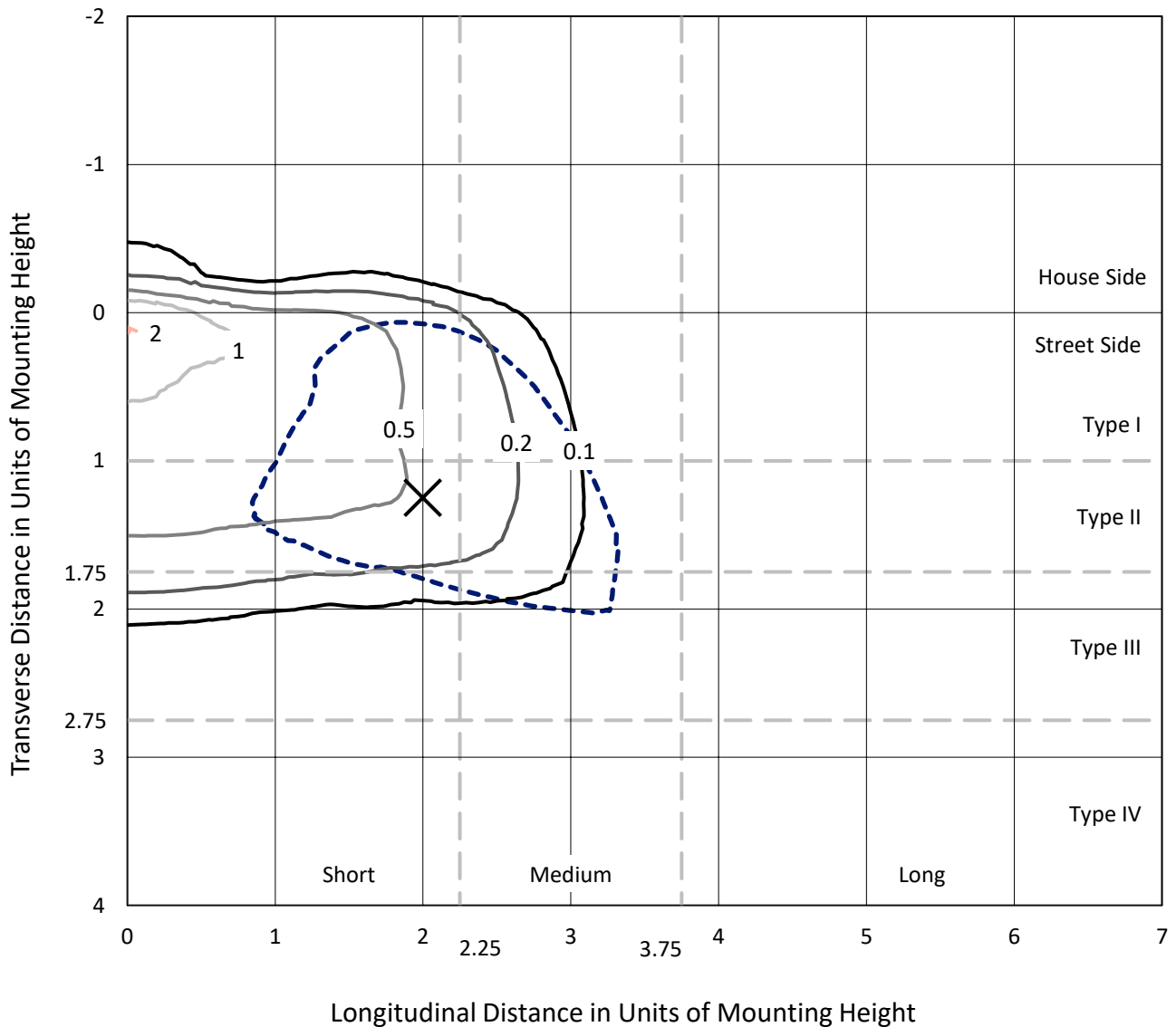
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P450459
 CATALOG NUMBER: GALN-SA1B-730-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

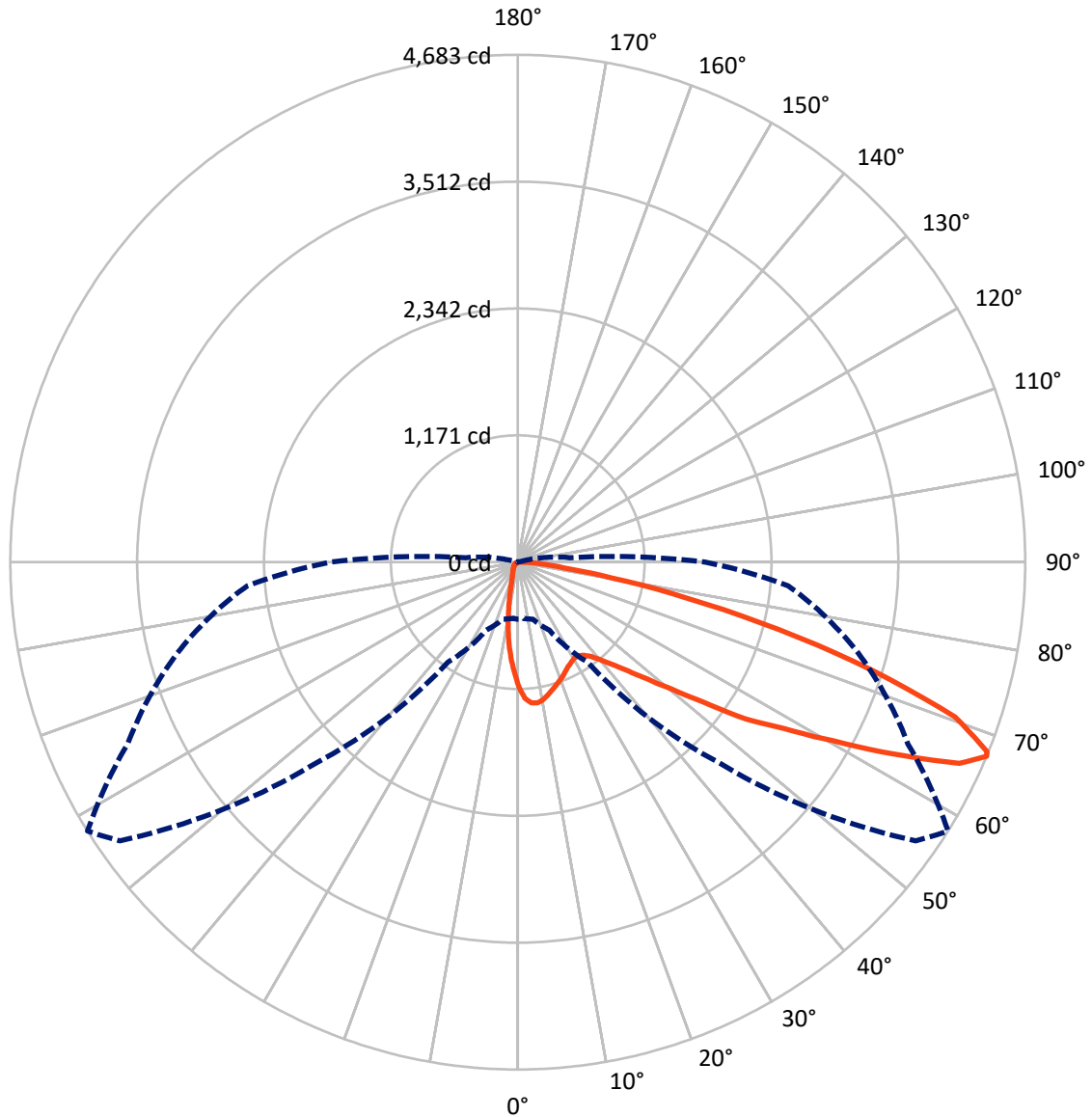
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type III - Short - N/A

REPORT NUMBER: P450459
CATALOG NUMBER: GALN-SA1B-730-U-SL3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P450459
 CATALOG NUMBER: GALN-SA1B-730-U-SL3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	313.1	0.0	313.1
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	4024.9	0.0	4024.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	4338.0	0.0	4338.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.3	2.2
10°-20°	201.5	4.6
20°-30°	273.1	6.3
30°-40°	378.8	8.7
40°-50°	604.1	13.9
50°-60°	1044.3	24.1
60°-70°	1192.9	27.5
70°-80°	497.3	11.5
80°-90°	52.7	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°	4338.0	100.0
0°-180°	4338.0	100.0

Coefficient of Utilization



REPORT NUMBER: P450459

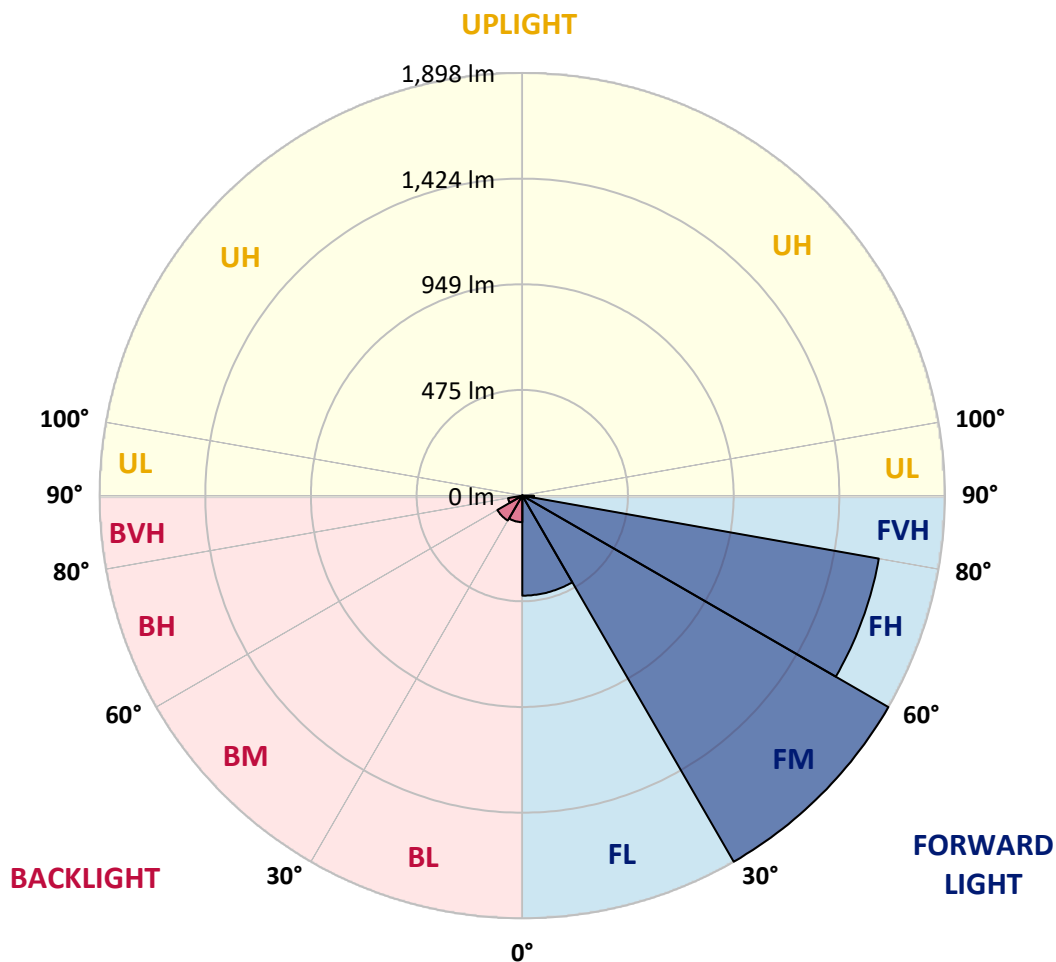
CATALOG NUMBER: GALN-SA1B-730-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	449.1	10.4			
FM (30°-60°)	1898.1	43.8			
FH (60°-80°)	1625.5	37.5			G1/1800
FVH (80°-90°)	52.3	1.2			G1/100
BL (0°-30°)	118.9	2.7	B1/500		
BM (30°-60°)	129.1	3.0	B0/220		
BH (60°-80°)	64.7	1.5	B0/110		G0/110
BVH (80°-90°)	0.4	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-G1

Type III Short





REPORT NUMBER: P450459

CATALOG NUMBER: GALN-SA1B-730-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0
2.5°	1334.6	1336.6	1329.1	1323.0	1307.4	1290.6	1268.2	1256.4	1236.1	1201.0	1162.1
5°	1365.9	1368.5	1367.4	1365.9	1359.8	1343.6	1315.2	1304.8	1274.9	1217.8	1147.6
7.5°	1296.4	1305.9	1307.1	1318.4	1329.1	1330.6	1319.8	1312.0	1284.5	1217.5	1121.8
10°	1204.2	1210.5	1219.8	1232.9	1258.7	1280.1	1290.6	1289.4	1273.5	1208.5	1091.7
12.5°	1111.1	1114.6	1128.8	1151.1	1182.7	1219.2	1247.1	1252.6	1252.9	1197.8	1066.5
15°	1031.1	1029.7	1040.7	1066.5	1110.8	1156.6	1206.5	1215.2	1229.1	1187.4	1043.0
17.5°	962.7	970.2	972.0	1000.4	1041.3	1100.7	1164.2	1179.5	1207.4	1178.4	1023.6
20°	920.4	924.4	928.2	944.1	981.0	1043.6	1124.5	1145.6	1187.1	1170.3	1001.8
22.5°	907.9	910.5	907.3	912.3	938.3	994.0	1081.3	1109.4	1167.6	1162.7	984.2
25°	917.5	920.1	912.6	906.8	915.7	953.7	1039.5	1073.7	1152.0	1161.3	970.8
27.5°	940.7	945.6	935.2	924.7	919.5	932.0	1006.8	1046.5	1141.3	1168.2	964.7
30°	976.9	979.8	972.0	959.2	947.3	934.9	989.7	1027.6	1138.4	1184.5	964.1
32.5°	1016.3	1022.4	1018.1	1009.7	994.3	964.7	994.6	1028.2	1145.3	1207.9	971.4
35°	1065.0	1072.0	1076.0	1074.3	1054.6	1017.8	1025.9	1054.3	1163.9	1251.1	991.1
37.5°	1112.9	1118.9	1141.8	1149.7	1132.3	1097.5	1086.8	1105.6	1204.8	1307.7	1026.8
40°	1167.6	1175.8	1207.9	1237.8	1229.4	1192.9	1173.2	1188.8	1267.4	1392.9	1094.3
42.5°	1220.1	1234.6	1283.6	1336.4	1344.2	1303.3	1290.3	1295.5	1360.1	1515.5	1188.5
45°	1294.6	1308.2	1371.4	1443.0	1479.9	1448.0	1434.6	1433.8	1487.4	1688.0	1341.3
47.5°	1402.2	1414.3	1488.8	1559.6	1625.1	1629.4	1604.2	1612.9	1647.4	1889.7	1528.6
50°	1534.1	1562.8	1611.7	1685.4	1772.9	1843.7	1851.5	1839.9	1869.5	2123.4	1753.5
52.5°	1725.7	1736.7	1781.6	1842.2	1944.8	2064.8	2157.9	2141.9	2132.7	2346.0	1980.8
55°	1868.6	1883.4	1953.2	2036.4	2186.9	2345.1	2546.9	2552.4	2435.3	2560.0	2203.1
57.5°	1825.4	1848.0	1953.8	2121.1	2451.8	2741.1	2891.3	2895.1	2715.3	2767.8	2454.1
60°	1603.6	1614.4	1766.0	1989.2	2474.4	3170.2	3379.7	3349.3	3000.3	3000.3	2675.9
62.5°	1137.2	1154.0	1276.9	1605.4	2234.7	3319.2	3964.7	3901.8	3392.8	3222.6	2808.1
65°	726.7	710.5	792.0	1013.4	1664.8	3099.1	4474.0	4477.8	3762.1	3311.6	2735.9
67°	526.4	520.0	543.5	692.8	1128.8	2605.2	4484.8	4683.3	3974.3	3255.4	2505.2
67.5°	481.5	486.4	503.5	625.0	1025.6	2370.7	4436.1	4671.2	4022.1	3221.5	2421.7
70°	365.0	356.6	375.1	442.1	614.8	1495.5	3816.0	4284.2	3962.7	2884.9	1935.0
72.5°	268.4	267.6	293.4	361.5	473.4	796.6	2864.6	3435.1	3237.4	2196.7	1218.4
75°	181.2	189.3	230.5	302.1	429.0	516.6	1952.9	2492.1	2247.5	1247.4	498.0
77.5°	103.2	103.8	148.4	242.6	385.3	415.7	1157.2	1587.7	1189.7	414.8	147.8
80°	44.6	49.0	73.6	176.2	319.5	368.2	663.5	872.5	481.2	87.8	47.8
82.5°	16.5	19.4	32.5	108.4	233.1	303.2	400.9	416.6	163.2	31.0	29.9
85°	0.0	0.6	11.9	50.7	121.5	135.4	267.9	247.0	72.2	14.8	19.4
87.5°	0.0	0.0	0.0	5.2	15.9	50.4	83.2	92.8	17.4	5.2	4.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P450459

CATALOG NUMBER: GALN-SA1B-730-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0
2.5°	1141.3	1122.4	1075.2	1027.9	992.8	963.6	919.5	895.4	882.7	863.8	865.0
5°	1112.6	1074.3	991.1	905.0	835.4	767.6	686.4	653.7	626.1	610.5	600.1
7.5°	1070.0	1013.4	890.2	775.4	668.5	549.9	460.9	401.5	361.5	346.7	332.5
10°	1023.3	948.2	787.9	628.8	480.3	358.0	282.6	228.1	208.7	190.7	192.5
12.5°	980.1	888.8	694.0	496.3	336.6	227.6	177.4	155.1	148.7	146.7	146.7
15°	944.7	832.0	593.1	373.1	230.7	163.5	142.0	136.0	133.6	133.1	133.1
17.5°	907.0	778.0	502.1	275.7	167.8	136.8	129.6	125.5	124.6	124.1	124.1
20°	873.4	723.8	415.7	205.2	135.7	123.2	118.6	116.0	115.1	114.5	114.8
22.5°	841.5	675.7	334.5	155.1	119.4	112.2	107.5	104.9	103.2	101.7	102.0
25°	813.1	629.3	269.0	127.0	107.5	101.2	96.5	92.8	89.0	87.3	87.0
27.5°	793.1	588.8	209.6	108.7	96.8	89.9	84.1	79.4	74.5	71.9	71.3
30°	776.6	547.6	165.8	96.0	86.1	79.4	72.2	65.5	60.3	57.7	56.5
32.5°	765.9	508.5	130.7	85.5	77.1	69.0	60.9	54.2	48.4	45.8	45.2
35°	764.1	475.7	107.0	76.8	69.0	60.3	51.9	44.6	39.7	37.1	36.5
37.5°	776.6	450.5	89.6	69.9	62.3	52.8	43.5	36.8	32.5	30.4	30.1
40°	809.9	434.5	77.7	64.1	56.2	45.8	37.1	31.3	27.0	24.9	24.9
42.5°	873.4	435.1	69.9	58.6	50.1	39.1	31.6	26.1	22.3	20.6	20.0
45°	972.6	454.8	63.2	53.0	44.4	33.9	27.0	21.5	17.7	16.2	16.2
47.5°	1105.3	494.0	57.4	47.5	39.1	29.0	22.9	17.4	14.2	12.8	12.8
50°	1279.0	556.9	52.5	42.9	34.8	24.9	18.6	14.2	11.0	9.9	9.6
52.5°	1460.4	634.6	46.7	38.8	29.9	21.2	15.1	11.0	8.4	7.5	7.2
55°	1660.7	710.5	41.2	34.8	24.4	17.7	11.9	8.7	6.1	5.2	5.2
57.5°	1862.8	785.0	34.5	29.0	19.1	13.0	9.3	6.4	4.1	3.2	3.2
60°	2033.8	809.1	29.3	23.5	14.5	9.3	6.7	4.1	2.3	1.4	1.4
62.5°	2057.3	727.9	24.6	18.0	10.4	6.4	3.5	2.3	0.9	0.6	0.6
65°	1929.7	591.4	20.6	13.6	7.0	3.2	1.4	0.9	0.3	0.0	0.0
67°	1729.1	479.5	16.8	10.1	4.9	2.0	0.9	0.3	0.0	0.0	0.0
67.5°	1677.8	457.1	16.2	9.6	4.3	1.7	0.6	0.3	0.0	0.0	0.0
70°	1316.6	342.4	11.6	5.8	2.6	1.2	0.0	0.0	0.0	0.0	0.0
72.5°	818.3	193.6	8.4	3.5	1.7	0.6	0.0	0.0	0.0	0.0	0.0
75°	309.3	67.8	5.8	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	96.2	25.8	3.5	1.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	32.5	9.9	2.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	20.0	4.1	1.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.5	1.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	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)