

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: P452096

Luminaire Tested: **GALN-SA3A-730-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452096
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9128 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

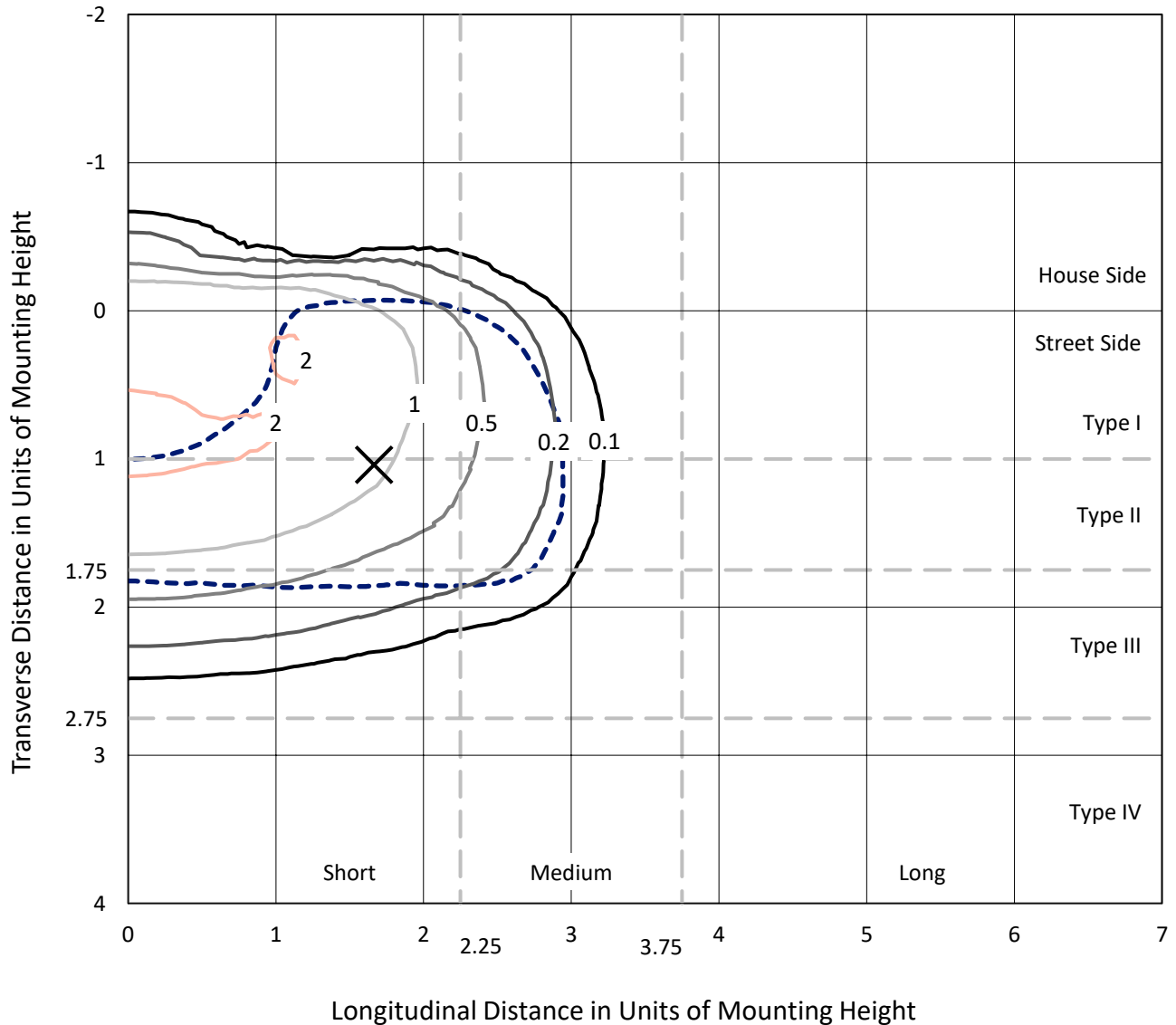
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452096
 CATALOG NUMBER: GALN-SA3A-730-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

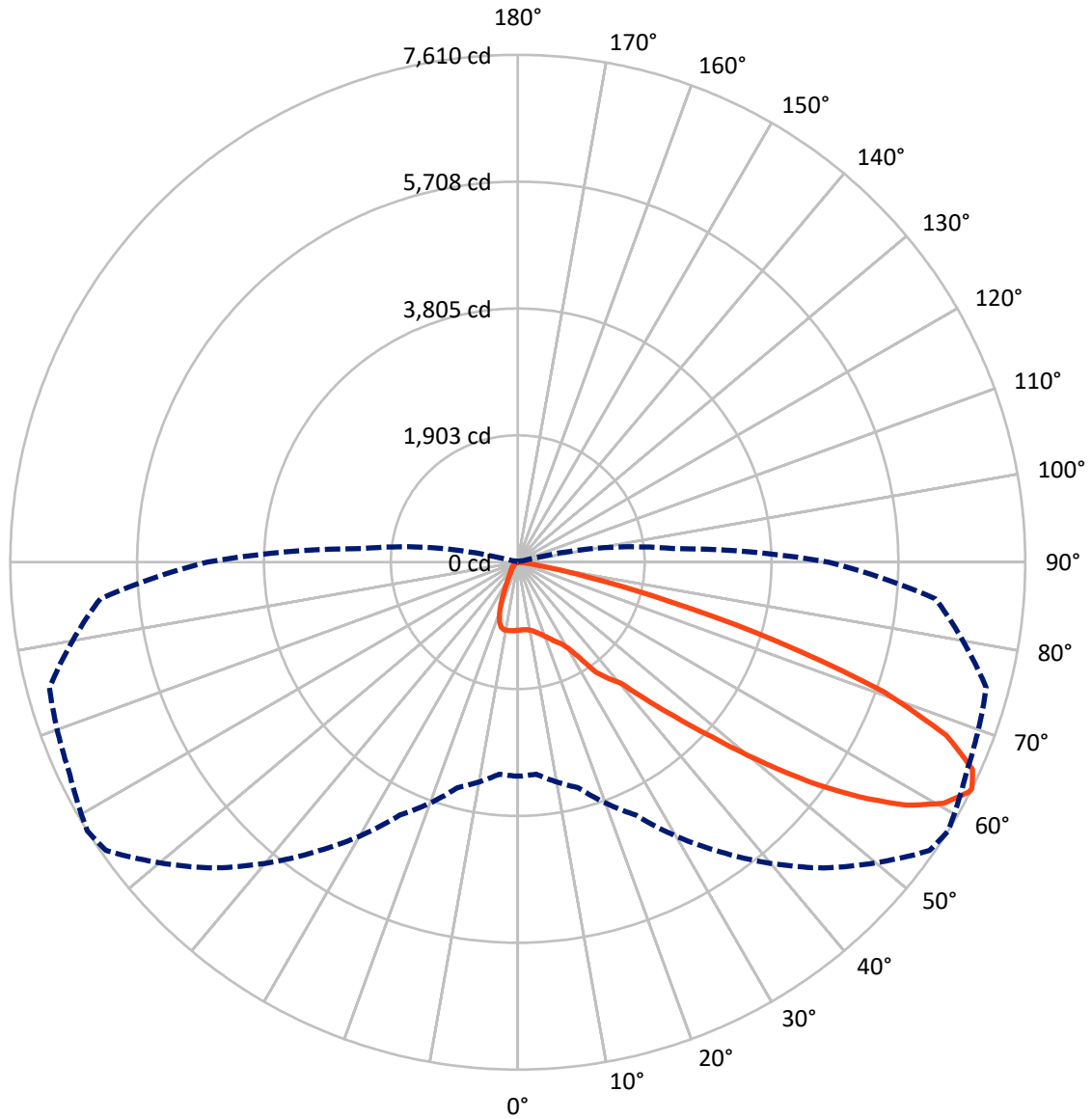
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P452096
CATALOG NUMBER: GALN-SA3A-730-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

REPORT NUMBER: P452096

CATALOG NUMBER: GALN-SA3A-730-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	945.1	0.0	945.1
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	8182.9	0.0	8182.9
	% Fixture	89.6	0.0	89.6
Total	Lumens	9128.0	0.0	9128.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.7	1.0
10°-20°	260.6	2.9
20°-30°	452.2	5.0
30°-40°	831.0	9.1
40°-50°	1564.3	17.1
50°-60°	2675.6	29.3
60°-70°	2561.9	28.1
70°-80°	653.3	7.2
80°-90°	33.4	0.4
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°	9128.0	100.0
0°-180°	9128.0	100.0

Coefficient of Utilization



REPORT NUMBER: P452096

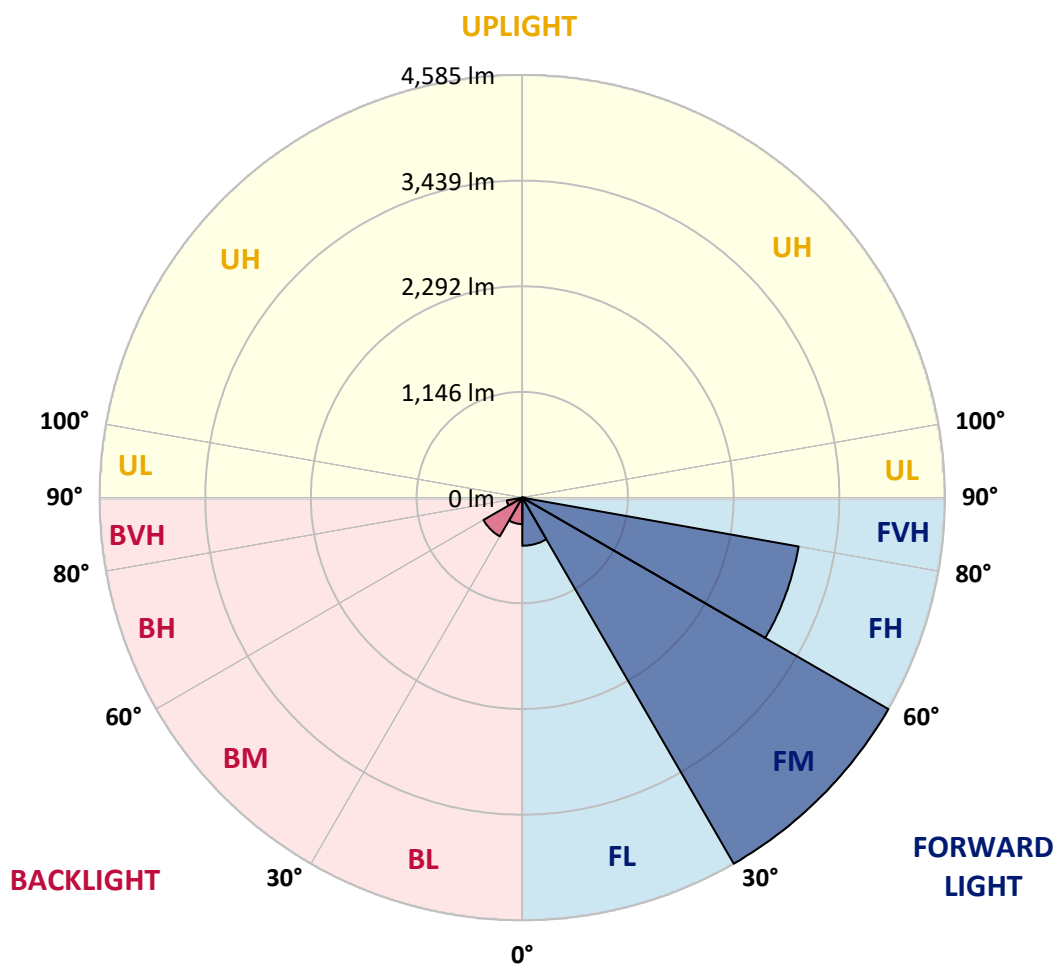
CATALOG NUMBER: GALN-SA3A-730-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	521.8	5.7			
FM	(30°-60°)	4584.8	50.2			
FH	(60°-80°)	3044.1	33.3			G2/5000
FVH	(80°-90°)	32.1	0.4			G1/100
BL	(0°-30°)	286.6	3.1	B1/500		
BM	(30°-60°)	486.1	5.3	B1/1000		
BH	(60°-80°)	171.1	1.9	B1/500		G1/500
BVH	(80°-90°)	1.3	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 III Short





REPORT NUMBER: P452096

CATALOG NUMBER: GALN-SA3A-730-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9
2.5°	996.5	999.9	1003.4	1004.7	1009.5	1014.4	1017.8	1017.1	1022.6	1025.4	1025.4
5°	956.6	956.6	965.6	973.8	987.6	1001.3	1014.4	1017.1	1027.4	1037.0	1040.5
7.5°	923.0	925.0	931.9	947.0	965.6	989.6	1015.7	1021.9	1039.8	1061.1	1070.0
10°	907.1	908.5	917.5	933.3	956.6	989.6	1026.0	1037.7	1065.2	1098.9	1111.3
12.5°	903.7	905.8	914.7	932.6	959.4	999.2	1048.7	1061.1	1100.9	1144.2	1162.8
15°	909.9	911.3	920.2	939.4	969.0	1016.4	1079.0	1096.1	1143.6	1193.7	1217.8
17.5°	931.9	930.5	936.7	952.5	985.5	1037.7	1115.4	1136.0	1191.7	1260.4	1276.2
20°	1025.4	1016.4	1010.9	997.2	1010.2	1068.0	1159.4	1189.6	1258.3	1328.4	1339.4
22.5°	1226.7	1206.8	1167.6	1114.0	1072.8	1109.2	1212.3	1247.3	1336.0	1404.7	1404.7
25°	1483.0	1457.6	1418.4	1301.6	1200.6	1177.2	1272.1	1316.1	1420.5	1489.9	1467.2
27.5°	1804.0	1784.1	1707.8	1571.7	1417.1	1296.1	1341.5	1382.0	1495.4	1579.3	1531.8
30°	2065.1	2055.5	1993.0	1871.3	1700.9	1524.3	1470.7	1497.5	1595.1	1692.0	1643.2
32.5°	2285.7	2285.7	2221.8	2108.4	1949.0	1792.3	1689.9	1709.1	1802.6	1914.6	1823.9
35°	2528.3	2520.1	2468.5	2360.6	2182.0	2043.8	2001.9	2028.0	2112.6	2195.7	1972.4
37.5°	2783.3	2780.5	2726.9	2622.5	2476.8	2302.9	2204.6	2211.5	2254.8	2305.7	2146.2
40°	3060.2	3064.4	2994.3	2929.7	2792.2	2614.2	2425.9	2382.6	2423.2	2566.8	2467.2
42.5°	3387.4	3377.7	3347.5	3259.5	3148.9	3042.4	2816.3	2800.5	2836.2	2990.1	2882.3
45°	3767.4	3781.2	3728.9	3680.1	3605.9	3517.3	3328.3	3300.8	3340.0	3579.1	3425.9
47.5°	4148.1	4135.1	4168.8	4159.8	4199.7	4133.7	3966.7	3910.4	4004.5	4231.3	4005.9
50°	4438.1	4452.6	4522.7	4625.1	4796.2	4833.3	4673.2	4653.9	4695.9	4841.6	4524.7
52.5°	4626.5	4674.6	4784.5	5047.7	5356.3	5596.1	5474.5	5464.2	5447.0	5486.2	5020.9
55°	4749.5	4798.3	4941.9	5329.5	5860.7	6250.4	6256.6	6212.6	6099.2	6071.0	5484.8
57.5°	4673.9	4683.5	4888.3	5406.5	6140.4	6717.0	6919.1	6875.1	6665.5	6558.9	5894.4
60°	4201.1	4221.0	4506.2	5115.1	6018.8	6869.6	7358.2	7338.3	7108.7	6988.5	6213.3
62.5°	3363.3	3421.0	3714.5	4393.5	5453.2	6612.6	7536.2	7592.5	7413.9	7248.2	6313.6
63°	3209.4	3190.8	3500.8	4183.2	5303.4	6485.4	7538.9	7610.4	7427.6	7273.0	6286.1
65°	2375.8	2431.4	2632.8	3298.7	4413.4	5893.7	7369.2	7495.6	7376.8	7163.7	5981.7
67.5°	1333.9	1331.2	1553.8	2158.6	3089.1	4623.0	6663.4	6930.7	6906.0	6428.4	4958.4
70°	652.9	663.2	754.6	1118.8	1791.6	3189.4	5537.0	5825.7	5834.6	5049.1	3428.6
72.5°	295.5	300.3	365.6	545.0	920.9	1698.2	3815.5	4091.1	4040.2	3217.6	1893.3
75°	156.0	166.3	201.4	274.2	444.0	700.3	2075.4	2342.1	2235.6	1470.0	696.9
77.5°	115.5	118.9	136.8	174.6	237.8	272.8	895.5	1065.2	997.9	531.9	230.9
80°	84.5	87.3	101.7	123.7	149.8	138.8	337.4	386.9	347.1	180.7	70.8
82.5°	51.5	52.2	74.2	92.1	94.2	77.7	111.3	119.6	125.1	101.7	38.5
85°	18.6	23.4	50.2	66.7	55.7	39.2	46.7	51.5	56.4	64.6	22.7
87.5°	2.1	2.7	24.1	32.3	15.8	14.4	17.2	19.2	20.6	24.1	11.0
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: P452096

CATALOG NUMBER: GALN-SA3A-730-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9
2.5°	1028.1	1030.8	1028.8	1025.4	1024.7	1022.6	1018.5	1018.5	1018.5	1019.9	1018.5
5°	1043.2	1045.3	1040.5	1033.6	1026.0	1016.4	1006.1	999.9	999.2	997.9	994.4
7.5°	1072.1	1074.8	1063.8	1047.3	1026.7	1003.4	981.4	960.8	951.1	943.6	943.6
10°	1114.0	1116.8	1094.8	1065.2	1024.0	976.6	924.3	876.9	839.8	822.6	818.5
12.5°	1164.2	1165.5	1129.1	1077.6	1009.5	918.1	806.8	703.0	630.9	597.9	594.5
15°	1219.2	1209.5	1161.4	1082.4	968.3	797.9	605.5	478.3	403.4	381.4	389.7
17.5°	1274.8	1256.9	1186.2	1074.8	875.5	605.5	406.8	326.4	303.1	296.9	296.9
20°	1327.0	1302.3	1204.0	1041.8	714.7	417.2	301.7	282.5	278.3	274.2	274.9
22.5°	1379.3	1341.5	1219.8	968.3	532.6	298.3	270.1	263.9	258.4	252.9	252.2
25°	1430.1	1377.9	1226.0	832.2	362.9	256.3	246.7	238.5	227.5	221.3	219.9
27.5°	1483.0	1421.9	1221.9	660.4	264.6	229.5	219.9	208.2	195.2	184.2	184.2
30°	1584.8	1505.7	1207.5	474.9	222.7	202.0	189.7	171.1	156.7	145.7	145.0
32.5°	1723.6	1615.0	1158.0	334.0	197.9	178.0	159.4	138.8	123.7	115.5	115.5
35°	1847.3	1725.0	1065.2	246.0	178.0	154.6	131.9	112.0	100.3	94.8	92.8
37.5°	2035.6	1885.8	937.4	200.0	158.8	134.0	110.6	92.1	82.5	78.3	78.3
40°	2318.0	2082.3	780.7	175.2	140.2	114.1	92.1	77.7	70.1	65.3	65.3
42.5°	2668.5	2322.8	621.9	157.4	123.0	98.3	77.0	66.0	59.1	55.7	55.0
45°	3109.7	2576.4	479.0	140.9	109.3	83.8	65.3	55.7	48.8	46.7	47.4
47.5°	3570.2	2799.8	371.1	126.5	94.8	70.8	55.7	48.1	43.3	40.5	40.5
50°	3963.3	2953.7	281.8	110.0	83.8	59.8	48.8	43.3	39.2	37.8	37.1
52.5°	4291.8	2998.4	215.8	95.5	73.5	51.5	43.3	39.2	35.7	33.7	33.7
55°	4571.5	2959.2	169.1	80.4	61.9	44.7	38.5	35.0	30.9	28.9	28.2
57.5°	4735.0	2833.5	129.2	66.7	50.2	37.1	33.7	29.6	24.7	21.3	21.3
60°	4817.5	2650.7	99.0	55.0	38.5	29.6	27.5	22.0	17.2	14.4	13.7
62.5°	4718.5	2408.1	74.9	43.3	28.9	22.0	18.6	15.8	11.0	8.2	8.2
63°	4657.4	2338.0	72.2	41.2	26.8	20.6	17.2	14.4	9.6	7.6	6.9
65°	4245.7	2032.1	59.1	33.0	21.3	14.4	11.7	10.3	6.9	3.4	2.7
67.5°	3371.6	1554.5	46.7	24.7	15.1	10.3	6.9	6.2	2.1	0.0	0.0
70°	2279.6	1004.0	36.4	17.9	10.3	6.2	3.4	2.7	0.7	0.0	0.0
72.5°	1188.9	514.7	28.2	13.1	6.2	4.1	2.1	0.7	0.0	0.0	0.0
75°	420.6	175.2	20.6	8.2	4.1	2.1	0.7	0.0	0.0	0.0	0.0
77.5°	127.1	65.3	13.1	6.2	2.7	1.4	0.0	0.0	0.0	0.0	0.0
80°	44.7	24.1	7.6	4.1	2.1	0.7	0.0	0.0	0.0	0.0	0.0
82.5°	22.0	11.7	4.8	3.4	2.1	0.7	0.0	0.0	0.0	0.0	0.0
85°	12.4	7.6	4.1	3.4	2.1	1.4	0.0	0.0	0.0	0.0	0.0
87.5°	8.9	5.5	4.1	3.4	2.7	1.4	0.7	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)