

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: P458764

Luminaire Tested: **GALN-SA3A-735-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458764
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10182 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

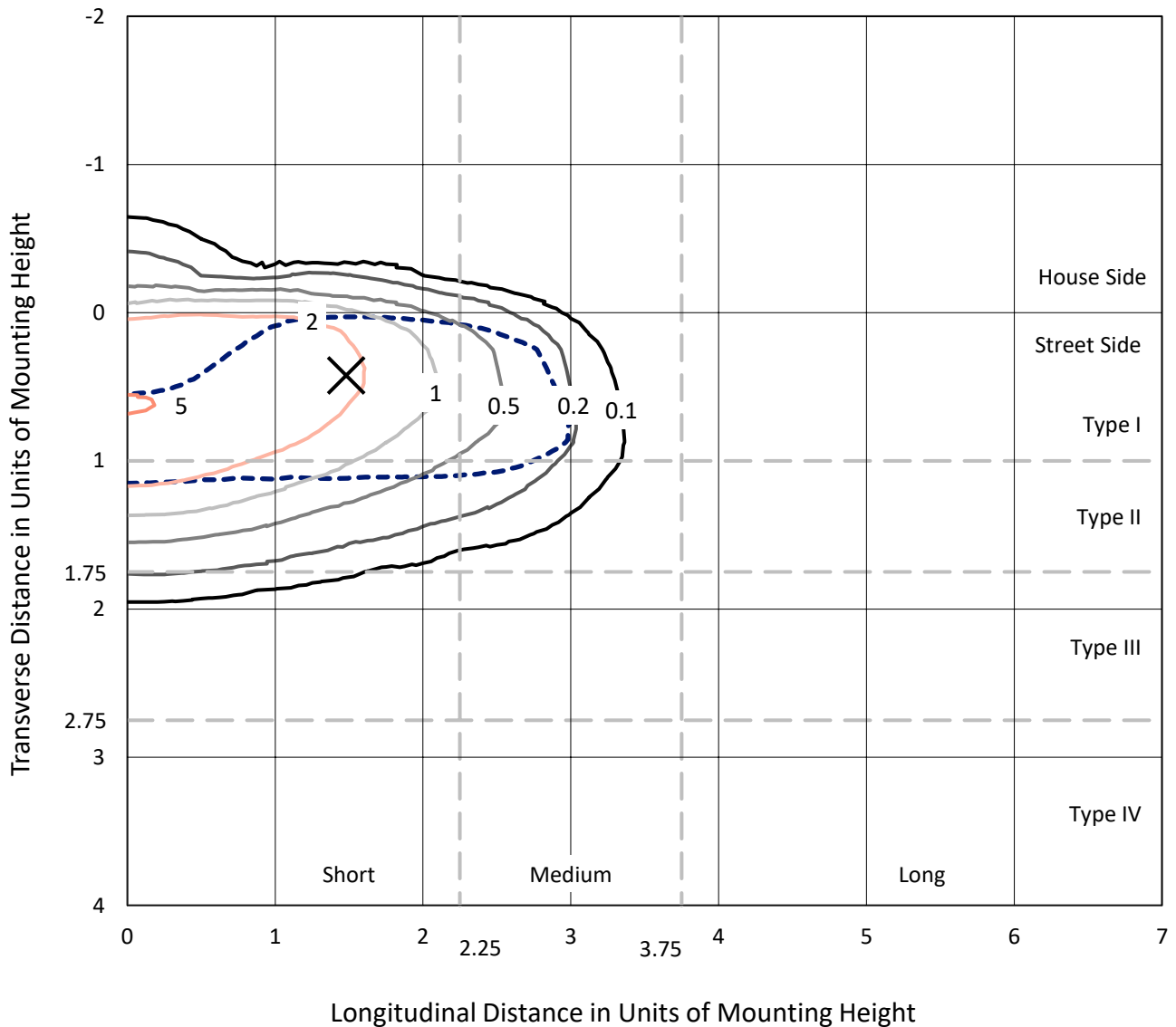
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458764
 CATALOG NUMBER: GALN-SA3A-735-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

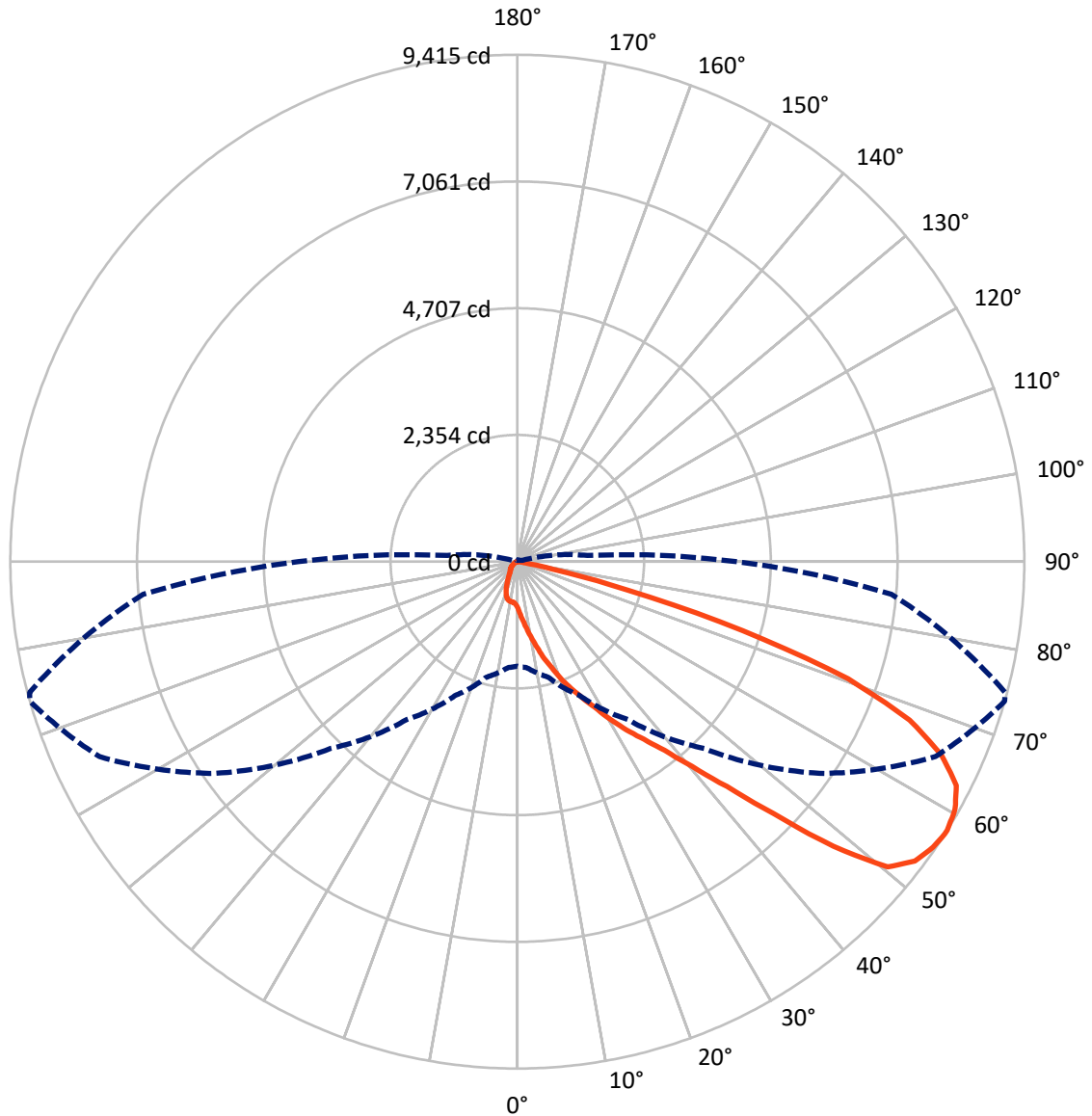
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Short - N/A

REPORT NUMBER: P458764
CATALOG NUMBER: GALN-SA3A-735-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

REPORT NUMBER: P458764

CATALOG NUMBER: GALN-SA3A-735-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	587.3	0.0	587.3
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	9594.7	0.0	9594.7
	% Fixture	94.2	0.0	94.2
Total	Lumens	10182.0	0.0	10182.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.9	1.0
10°-20°	405.7	4.0
20°-30°	868.1	8.5
30°-40°	1595.5	15.7
40°-50°	2446.0	24.0
50°-60°	2587.5	25.4
60°-70°	1689.7	16.6
70°-80°	461.7	4.5
80°-90°	24.8	0.2
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°	10182.0	100.0
0°-180°	10182.0	100.0

Coefficient of Utilization



REPORT NUMBER: P458764

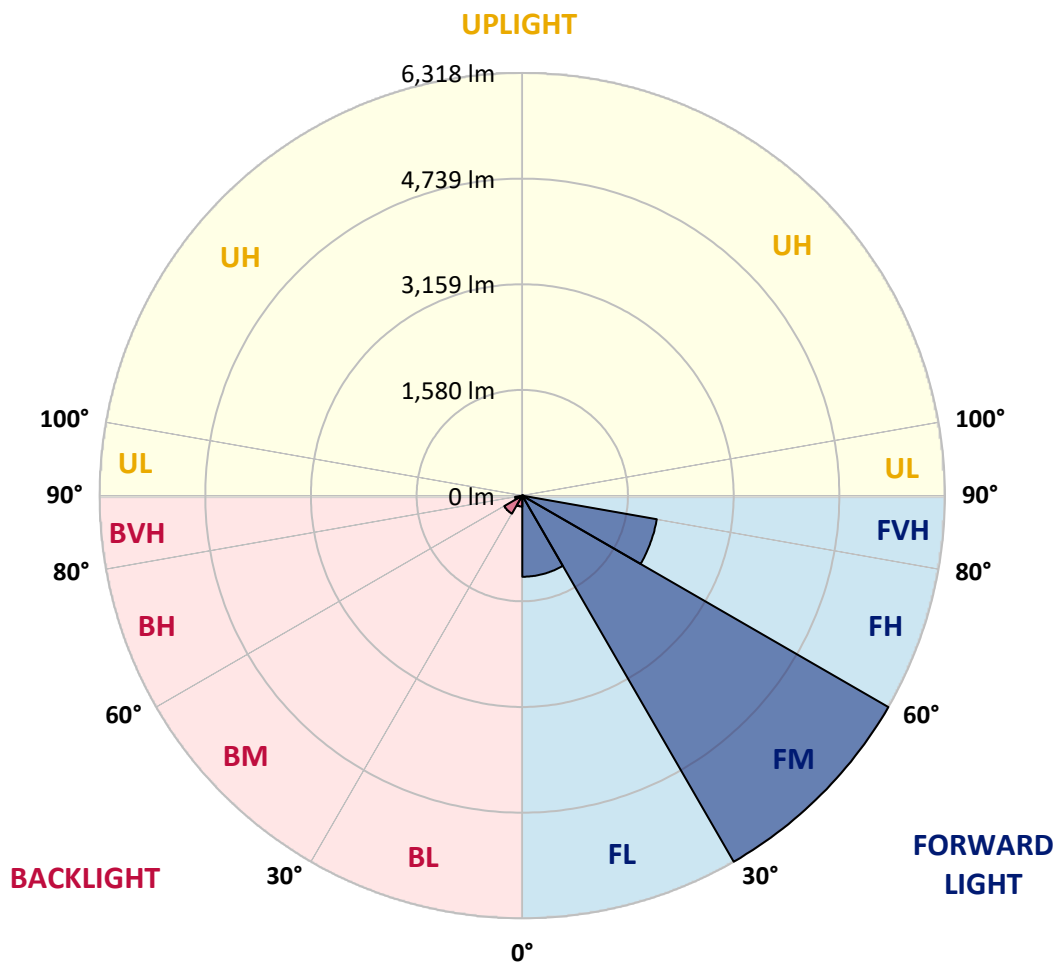
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1212.7	11.9			
FM (30°-60°)	6318.1	62.1			
FH (60°-80°)	2041.2	20.0			G2/5000
FVH (80°-90°)	22.8	0.2			G1/100
BL (0°-30°)	164.0	1.6	B1/500		
BM (30°-60°)	310.9	3.1	B1/1000		
BH (60°-80°)	110.3	1.1	B1/500		G1/500
BVH (80°-90°)	2.0	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





REPORT NUMBER: P458764

CATALOG NUMBER: GALN-SA3A-735-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	852.7	852.7	852.7	852.7	852.7	852.7	852.7	852.7	852.7	852.7	852.7
2.5°	1247.8	1236.6	1214.1	1206.3	1173.3	1122.0	1077.0	1016.5	968.7	963.8	906.2
5°	1671.0	1645.7	1635.2	1584.5	1505.1	1430.6	1302.6	1205.6	1093.9	1085.4	969.4
7.5°	2078.7	2043.6	2033.1	1985.2	1892.5	1775.1	1609.1	1432.7	1255.5	1239.4	1054.5
10°	2374.0	2378.9	2359.9	2328.3	2253.1	2133.6	1929.0	1687.9	1435.5	1415.1	1150.1
12.5°	2585.6	2584.9	2588.4	2587.7	2547.6	2457.0	2241.8	1964.2	1633.8	1593.7	1259.8
15°	2723.4	2725.5	2736.0	2772.6	2776.8	2720.6	2541.3	2228.5	1863.6	1813.7	1378.6
17.5°	2862.6	2877.3	2894.2	2928.7	2959.6	2937.1	2810.6	2504.1	2071.7	2034.5	1505.8
20°	3092.5	3112.8	3103.0	3124.1	3140.3	3142.4	3044.7	2758.5	2324.1	2261.5	1651.3
22.5°	3460.1	3459.4	3434.1	3396.2	3364.5	3363.1	3274.5	3020.1	2553.3	2492.8	1797.6
25°	3924.8	3926.9	3877.7	3769.4	3690.7	3594.4	3492.5	3249.2	2798.6	2724.1	1951.5
27.5°	4457.7	4444.3	4369.8	4220.8	4064.7	3900.2	3753.3	3515.7	3058.7	2996.9	2128.0
30°	4936.4	4931.5	4844.3	4662.2	4457.0	4291.8	4078.8	3849.6	3395.5	3319.5	2325.5
32.5°	5382.1	5389.1	5268.2	5079.8	4881.6	4691.1	4466.1	4168.7	3725.9	3618.3	2540.6
35°	5730.1	5737.1	5612.0	5455.2	5251.3	5093.2	4878.8	4509.0	4052.0	3961.4	2788.1
37.5°	5915.7	5924.8	5852.4	5734.3	5607.1	5527.6	5328.0	4947.0	4448.5	4393.7	3080.5
40°	5950.8	5961.4	5929.7	5898.1	5891.1	5948.0	5889.7	5463.0	4998.3	4912.5	3516.4
42.5°	5845.4	5859.4	5873.5	5943.8	6087.2	6296.0	6499.2	6163.1	5706.2	5590.9	4049.2
45°	5568.4	5567.0	5622.5	5804.6	6125.9	6571.6	7136.1	7039.8	6670.7	6533.6	4802.1
47.5°	5094.6	5087.6	5207.8	5467.2	5967.7	6622.2	7655.6	8104.1	7901.6	7775.1	5611.3
50°	4372.6	4407.1	4596.2	4958.2	5574.7	6468.9	7815.9	8802.2	8911.8	8777.6	6265.1
52.5°	3526.9	3525.5	3822.2	4313.6	4992.6	6131.5	7704.1	8928.7	9240.1	9137.5	6587.0
55°	2610.2	2628.5	2937.1	3432.7	4236.9	5515.7	7339.2	8798.6	9365.3	9292.9	6799.3
57°	1941.7	1974.0	2221.5	2745.9	3578.9	4906.2	6853.5	8566.0	9414.5	9375.1	6975.8
57.5°	1812.3	1813.7	2054.8	2531.5	3386.3	4672.1	6714.3	8468.9	9413.1	9391.3	7004.6
60°	1115.6	1150.8	1317.4	1711.1	2478.7	3646.4	5781.4	7911.5	9340.0	9371.6	7127.6
62.5°	667.8	682.6	790.9	1031.3	1597.9	2661.5	4731.1	7197.9	9149.4	9245.8	7119.2
65°	429.5	433.0	482.3	624.3	999.0	1799.0	3645.7	6255.2	8656.6	8833.8	6840.8
67.5°	331.8	337.4	357.1	409.8	579.3	1120.6	2578.6	5249.2	7859.5	8087.9	6165.9
70°	294.6	297.4	304.4	321.3	383.1	632.7	1604.2	4100.6	6517.4	6582.1	4825.3
72.5°	240.4	248.2	269.9	275.6	303.7	395.1	892.8	2752.2	4378.9	4395.1	2699.5
75°	186.3	187.7	220.0	236.2	255.9	272.1	398.6	1387.7	2103.4	1990.9	1040.4
77.5°	139.2	145.5	160.3	180.7	208.8	194.7	178.6	523.0	653.1	641.1	302.3
80°	89.3	92.8	111.8	135.7	162.4	127.2	100.5	153.3	143.4	147.6	72.4
82.5°	45.0	45.7	71.7	110.4	103.3	64.0	63.3	62.6	53.4	52.7	33.7
85°	4.9	10.5	46.4	63.3	46.4	21.1	29.5	28.8	28.1	28.8	19.7
87.5°	0.7	0.7	7.7	9.1	6.3	7.0	8.4	9.1	11.2	10.5	8.4
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°	852.7	852.7	852.7	852.7	852.7	852.7	852.7	852.7	852.7	852.7	852.7
2.5°	878.0	849.9	797.9	748.0	710.7	686.8	655.9	644.6	628.5	626.4	618.6
5°	916.0	862.6	771.9	700.2	642.5	598.9	561.0	529.4	504.0	498.4	501.2
7.5°	970.1	890.7	764.2	666.4	586.3	511.8	451.3	414.1	387.3	377.5	378.9
10°	1031.3	927.9	762.7	630.6	508.3	416.9	350.8	317.8	302.3	296.7	290.3
12.5°	1103.7	970.8	759.2	575.0	422.5	332.5	285.4	265.7	251.0	246.8	246.8
15°	1185.2	1016.5	742.4	506.2	343.1	274.9	243.2	227.8	222.8	218.6	218.6
17.5°	1270.3	1061.5	707.2	421.1	284.7	235.5	215.8	206.7	199.6	194.7	194.7
20°	1367.3	1105.8	651.0	345.9	240.4	210.2	194.7	184.2	178.6	174.3	172.9
22.5°	1459.4	1141.7	579.3	284.0	209.5	189.1	175.0	163.8	158.2	156.1	156.1
25°	1555.0	1163.5	492.8	234.8	191.2	171.5	156.1	146.9	142.0	140.6	139.9
27.5°	1647.8	1176.1	416.9	205.3	174.3	155.4	140.6	133.6	128.6	127.2	127.9
30°	1760.3	1178.2	343.1	184.2	159.6	139.9	126.5	120.2	117.4	116.0	115.3
32.5°	1874.2	1175.4	288.2	171.5	145.5	126.5	115.3	110.4	108.3	106.2	106.2
35°	2002.1	1160.6	245.3	158.9	132.2	115.3	105.4	101.2	98.4	96.3	95.6
37.5°	2161.0	1152.9	220.7	144.8	120.2	104.7	95.6	91.4	89.3	86.5	85.8
40°	2411.3	1187.4	213.0	132.2	108.3	94.9	86.5	81.5	78.7	75.9	75.2
42.5°	2723.4	1247.8	200.4	119.5	97.7	85.8	77.3	71.7	66.8	63.3	61.9
45°	3127.6	1327.2	180.7	106.2	88.6	75.9	68.2	61.2	54.8	52.0	51.3
47.5°	3551.5	1403.9	163.1	95.6	78.7	67.5	59.1	51.3	45.7	43.6	42.9
50°	3811.6	1419.3	151.8	83.7	68.9	58.3	49.9	42.9	39.4	37.3	37.3
52.5°	3930.4	1394.7	136.4	73.1	59.8	51.3	42.9	37.3	35.1	33.7	33.0
55°	4013.4	1356.8	116.0	63.3	51.3	43.6	38.0	33.7	30.9	29.5	28.8
57°	4061.9	1305.5	100.5	55.5	44.3	38.0	33.7	30.2	27.4	24.6	24.6
57.5°	4064.0	1285.8	96.3	54.8	42.2	36.6	33.0	29.5	26.0	23.2	22.5
60°	4001.4	1150.8	77.3	46.4	33.7	30.9	27.4	23.2	18.3	15.5	14.8
62.5°	3800.4	979.3	64.0	39.4	27.4	23.9	19.7	17.6	12.7	9.1	9.1
65°	3496.0	794.4	54.8	31.6	22.5	17.6	13.4	12.7	7.7	4.2	3.5
67.5°	3055.9	618.6	46.4	26.0	19.0	12.7	9.1	8.4	4.2	1.4	0.0
70°	2328.3	421.8	38.7	21.1	14.1	9.1	6.3	4.9	2.8	0.7	0.0
72.5°	1342.0	232.0	32.3	16.2	10.5	7.0	4.9	2.8	2.8	0.0	0.0
75°	479.4	99.8	24.6	12.0	8.4	5.6	3.5	1.4	2.1	0.7	0.0
77.5°	152.5	53.4	16.2	9.1	7.0	4.2	2.8	1.4	1.4	0.7	0.0
80°	45.0	28.1	9.8	7.7	4.9	3.5	2.1	0.7	1.4	0.7	0.0
82.5°	24.6	14.1	7.7	5.6	4.9	2.8	2.1	0.7	0.7	0.7	0.0
85°	12.7	8.4	6.3	5.6	4.9	2.8	2.1	0.7	0.0	0.7	0.7
87.5°	7.0	6.3	6.3	5.6	4.9	3.5	2.1	0.7	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)