

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: P651803

Luminaire Tested: **GALN-SA3A-840-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651803
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-840-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 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: 9192.1 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

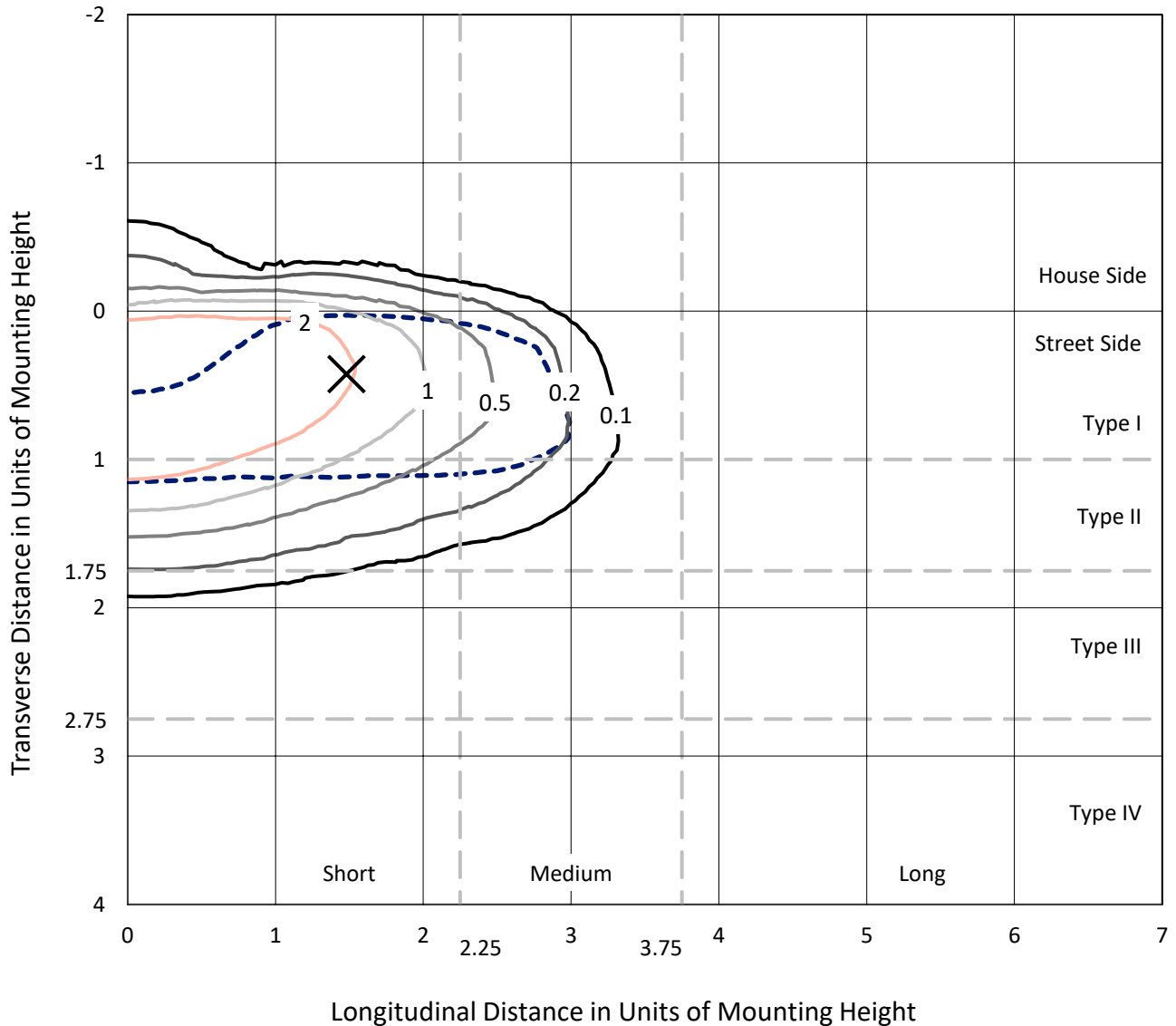
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651803
 CATALOG NUMBER: GALN-SA3A-840-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

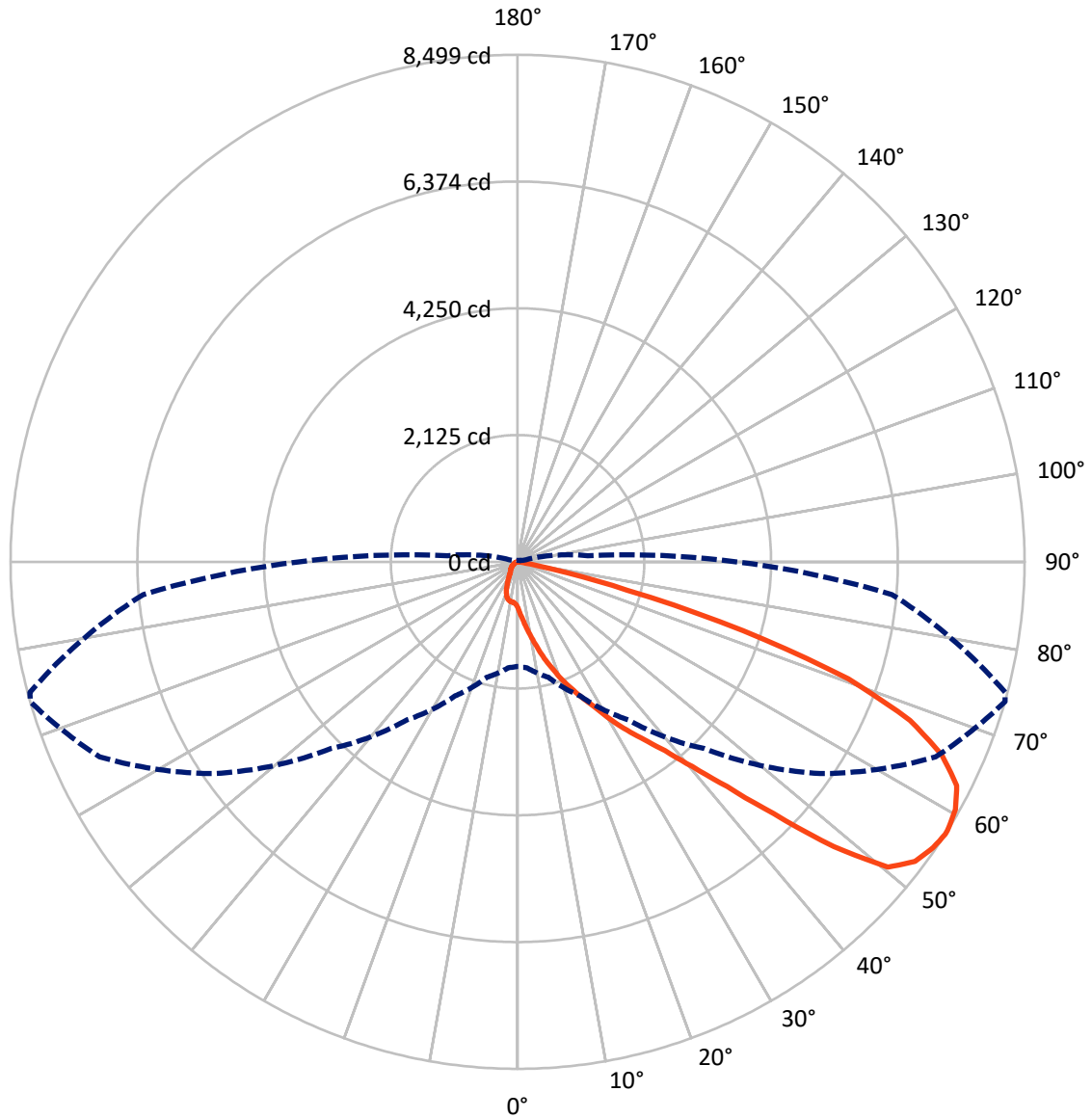
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Short - N/A

REPORT NUMBER: P651803
CATALOG NUMBER: GALN-SA3A-840-U-T2R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P651803
 CATALOG NUMBER: GALN-SA3A-840-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	530.2	0.0	530.2
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	8662.0	0.0	8662.0
	% Fixture	94.2	0.0	94.2
Total	Lumens	9192.1	0.0	9192.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.9	1.0
10°-20°	366.3	4.0
20°-30°	783.7	8.5
30°-40°	1440.4	15.7
40°-50°	2208.2	24.0
50°-60°	2336.0	25.4
60°-70°	1525.5	16.6
70°-80°	416.8	4.5
80°-90°	22.4	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°	9192.1	100.0
0°-180°	9192.1	100.0

Coefficient of Utilization



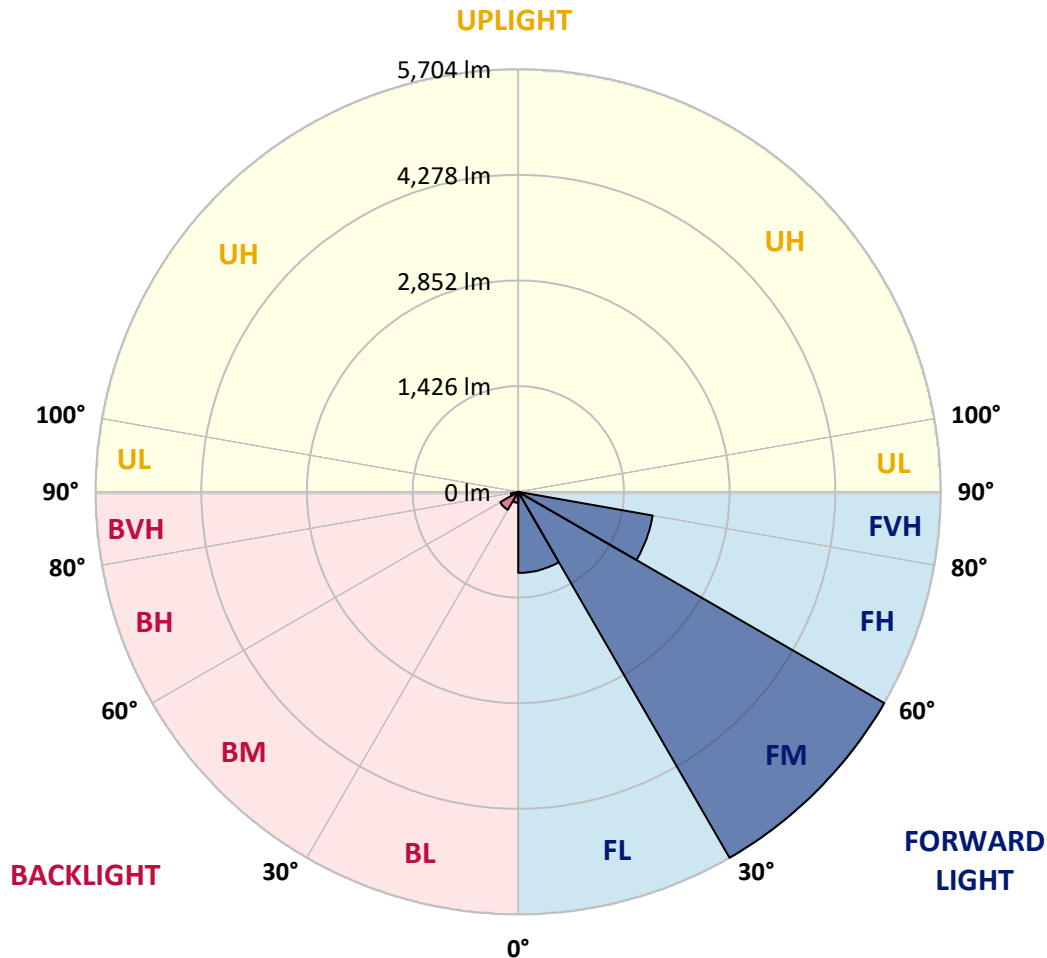
REPORT NUMBER: P651803
 CATALOG NUMBER: GALN-SA3A-840-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1094.8	11.9			
FM (30°-60°)	5703.9	62.1			
FH (60°-80°)	1842.7	20.0			G2/5000
FVH (80°-90°)	20.6	0.2			G1/100
BL (0°-30°)	148.1	1.6	B1/500		
BM (30°-60°)	280.7	3.1	B1/1000		
BH (60°-80°)	99.5	1.1	B0/110		G0/110
BVH (80°-90°)	1.9	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: P651803

CATALOG NUMBER: GALN-SA3A-840-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	769.9	769.9	769.9	769.9	769.9	769.9	769.9	769.9	769.9	769.9	769.9
2.5°	1126.5	1116.3	1096.1	1089.1	1059.2	1012.9	972.3	917.7	874.6	870.1	818.0
5°	1508.6	1485.7	1476.2	1430.5	1358.8	1291.5	1176.0	1088.4	987.5	979.9	875.1
7.5°	1876.7	1844.9	1835.4	1792.3	1708.5	1602.5	1452.7	1293.4	1133.5	1118.9	952.0
10°	2143.2	2147.7	2130.5	2102.0	2034.0	1926.1	1741.5	1523.8	1296.0	1277.6	1038.3
12.5°	2334.3	2333.6	2336.8	2336.1	2300.0	2218.1	2023.9	1773.2	1474.9	1438.8	1137.3
15°	2458.7	2460.5	2470.0	2503.1	2506.9	2456.1	2294.2	2011.8	1682.4	1637.4	1244.5
17.5°	2584.3	2597.6	2612.8	2643.9	2671.9	2651.6	2537.3	2260.6	1870.3	1836.7	1359.4
20°	2791.8	2810.2	2801.4	2820.4	2835.0	2836.9	2748.6	2490.4	2098.1	2041.7	1490.8
22.5°	3123.7	3123.1	3100.3	3065.9	3037.4	3036.2	2956.2	2726.4	2305.0	2250.4	1622.8
25°	3543.2	3545.2	3500.7	3403.0	3331.9	3245.0	3152.9	2933.3	2526.5	2459.3	1761.8
27.5°	4024.3	4012.2	3945.0	3810.4	3669.5	3521.0	3388.4	3173.8	2761.3	2705.5	1921.1
30°	4456.5	4452.1	4373.4	4209.0	4023.7	3874.6	3682.2	3475.3	3065.4	2996.8	2099.4
32.5°	4858.9	4865.2	4756.0	4586.0	4407.0	4235.0	4031.9	3763.5	3363.7	3266.5	2293.7
35°	5173.0	5179.4	5066.4	4924.9	4740.8	4598.0	4404.5	4070.6	3658.1	3576.3	2517.0
37.5°	5340.6	5348.8	5283.4	5176.9	5062.0	4990.2	4810.0	4466.0	4016.0	3966.6	2781.0
40°	5372.3	5381.8	5353.3	5324.7	5318.3	5369.8	5317.1	4931.9	4512.4	4434.9	3174.5
42.5°	5277.1	5289.8	5302.5	5365.9	5495.4	5683.9	5867.3	5564.0	5151.5	5047.3	3655.6
45°	5027.1	5025.8	5075.9	5240.3	5530.3	5932.7	6442.3	6355.4	6022.1	5898.4	4335.3
47.5°	4599.3	4593.0	4701.4	4935.7	5387.5	5978.4	6911.3	7316.2	7133.4	7019.2	5065.8
50°	3947.5	3978.6	4149.3	4476.1	5032.8	5840.1	7056.0	7946.4	8045.4	7924.2	5656.0
52.5°	3184.0	3182.8	3450.6	3894.2	4507.3	5535.4	6955.2	8060.6	8341.8	8249.2	5946.6
55°	2356.5	2373.0	2651.6	3099.0	3825.0	4979.5	6625.7	7943.2	8454.8	8389.4	6138.3
57°	1752.9	1782.1	2005.4	2478.9	3231.0	4429.2	6187.2	7733.2	8499.2	8463.7	6297.7
57.5°	1636.2	1637.4	1855.1	2285.3	3057.1	4217.9	6061.5	7645.6	8498.0	8478.3	6323.6
60°	1007.2	1038.9	1189.3	1544.7	2237.7	3291.9	5219.3	7142.4	8432.0	8460.5	6434.7
62.5°	602.9	616.3	714.0	931.1	1442.6	2402.8	4271.2	6498.2	8260.0	8346.9	6427.1
65°	387.8	391.0	435.4	563.6	901.8	1624.1	3291.3	5647.1	7815.1	7975.0	6175.8
67.5°	299.6	304.6	322.4	370.0	522.9	1011.6	2327.9	4739.0	7095.3	7301.6	5566.5
70°	265.9	268.4	274.8	290.1	345.9	571.2	1448.3	3701.9	5883.8	5942.3	4356.2
72.5°	217.1	224.0	243.7	248.8	274.2	356.7	806.0	2484.7	3953.2	3967.8	2437.0
75°	168.2	169.5	198.6	213.3	231.0	245.6	359.9	1252.8	1898.9	1797.3	939.3
77.5°	125.6	131.4	144.7	163.1	188.5	175.8	161.2	472.1	589.6	578.8	272.9
80°	80.6	83.8	100.9	122.4	146.6	114.9	90.7	138.3	129.4	133.3	65.3
82.5°	40.6	41.3	64.8	99.7	93.3	57.8	57.1	56.5	48.3	47.6	30.4
85°	4.5	9.5	41.9	57.1	41.9	19.0	26.7	26.0	25.4	26.0	17.7
87.5°	0.7	0.7	7.0	8.2	5.7	6.3	7.7	8.2	10.2	9.5	7.7
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: P651803
 CATALOG NUMBER: GALN-SA3A-840-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	769.9	769.9	769.9	769.9	769.9	769.9	769.9	769.9	769.9	769.9	769.9
2.5°	792.6	767.3	720.3	675.2	641.6	620.1	592.1	582.0	567.3	565.5	558.5
5°	827.0	778.7	696.9	632.1	580.0	540.7	506.5	477.9	455.1	449.9	452.5
7.5°	875.8	804.1	689.9	601.7	529.3	462.0	407.5	373.8	349.7	340.8	342.0
10°	931.1	837.7	688.6	569.3	458.8	376.3	316.7	286.9	272.9	267.9	262.1
12.5°	996.4	876.5	685.4	519.1	381.4	300.2	257.7	239.9	226.6	222.8	222.8
15°	1070.0	917.7	670.2	456.9	309.7	248.2	219.6	205.6	201.2	197.4	197.4
17.5°	1146.8	958.3	638.5	380.1	257.0	212.6	194.9	186.6	180.2	175.8	175.8
20°	1234.4	998.3	587.7	312.3	217.1	189.7	175.8	166.3	161.2	157.4	156.1
22.5°	1317.5	1030.6	522.9	256.4	189.1	170.7	158.0	147.8	142.8	140.9	140.9
25°	1403.9	1050.3	444.9	211.9	172.7	154.8	140.9	132.6	128.2	126.9	126.3
27.5°	1487.6	1061.8	376.3	185.4	157.4	140.3	126.9	120.6	116.1	114.9	115.5
30°	1589.2	1063.7	309.7	166.3	144.1	126.3	114.2	108.5	106.0	104.7	104.1
32.5°	1692.0	1061.2	260.2	154.8	131.4	114.2	104.1	99.7	97.7	95.9	95.9
35°	1807.5	1047.8	221.5	143.4	119.3	104.1	95.2	91.4	88.8	87.0	86.3
37.5°	1951.0	1040.8	199.3	130.8	108.5	94.5	86.3	82.5	80.6	78.0	77.5
40°	2176.8	1071.9	192.3	119.3	97.7	85.7	78.0	73.6	71.1	68.5	67.9
42.5°	2458.7	1126.5	180.9	107.9	88.2	77.5	69.8	64.8	60.3	57.1	55.8
45°	2823.6	1198.3	163.1	95.9	80.0	68.5	61.6	55.3	49.5	46.9	46.3
47.5°	3206.2	1267.4	147.3	86.3	71.1	60.9	53.3	46.3	41.3	39.4	38.7
50°	3441.0	1281.3	137.1	75.5	62.2	52.6	45.1	38.7	35.6	33.6	33.6
52.5°	3548.3	1259.1	123.1	66.0	53.9	46.3	38.7	33.6	31.7	30.4	29.9
55°	3623.2	1224.8	104.7	57.1	46.3	39.4	34.3	30.4	27.9	26.7	26.0
57°	3667.0	1178.6	90.7	50.1	39.9	34.3	30.4	27.2	24.7	22.2	22.2
57.5°	3668.9	1160.7	87.0	49.5	38.1	33.0	29.9	26.7	23.5	20.9	20.3
60°	3612.4	1038.9	69.8	41.9	30.4	27.9	24.7	20.9	16.5	14.0	13.3
62.5°	3430.9	884.1	57.8	35.6	24.7	21.6	17.7	15.9	11.4	8.2	8.2
65°	3156.1	717.1	49.5	28.6	20.3	15.9	12.0	11.4	7.0	3.8	3.2
67.5°	2758.8	558.5	41.9	23.5	17.2	11.4	8.2	7.7	3.8	1.3	0.0
70°	2102.0	380.8	34.9	19.0	12.7	8.2	5.7	4.5	2.5	0.7	0.0
72.5°	1211.5	209.4	29.2	14.6	9.5	6.3	4.5	2.5	2.5	0.0	0.0
75°	432.9	90.2	22.2	10.8	7.7	5.0	3.2	1.3	1.9	0.7	0.0
77.5°	137.8	48.3	14.6	8.2	6.3	3.8	2.5	1.3	1.3	0.7	0.0
80°	40.6	25.4	8.9	7.0	4.5	3.2	1.9	0.7	1.3	0.7	0.0
82.5°	22.2	12.7	7.0	5.0	4.5	2.5	1.9	0.7	0.7	0.7	0.0
85°	11.4	7.7	5.7	5.0	4.5	2.5	1.9	0.7	0.0	0.7	0.7
87.5°	6.3	5.7	5.7	5.0	4.5	3.2	1.9	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)