

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: P457187

Luminaire Tested: **GALN-SA8C-730-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457187
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-SA8C-730-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH 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: 42769 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

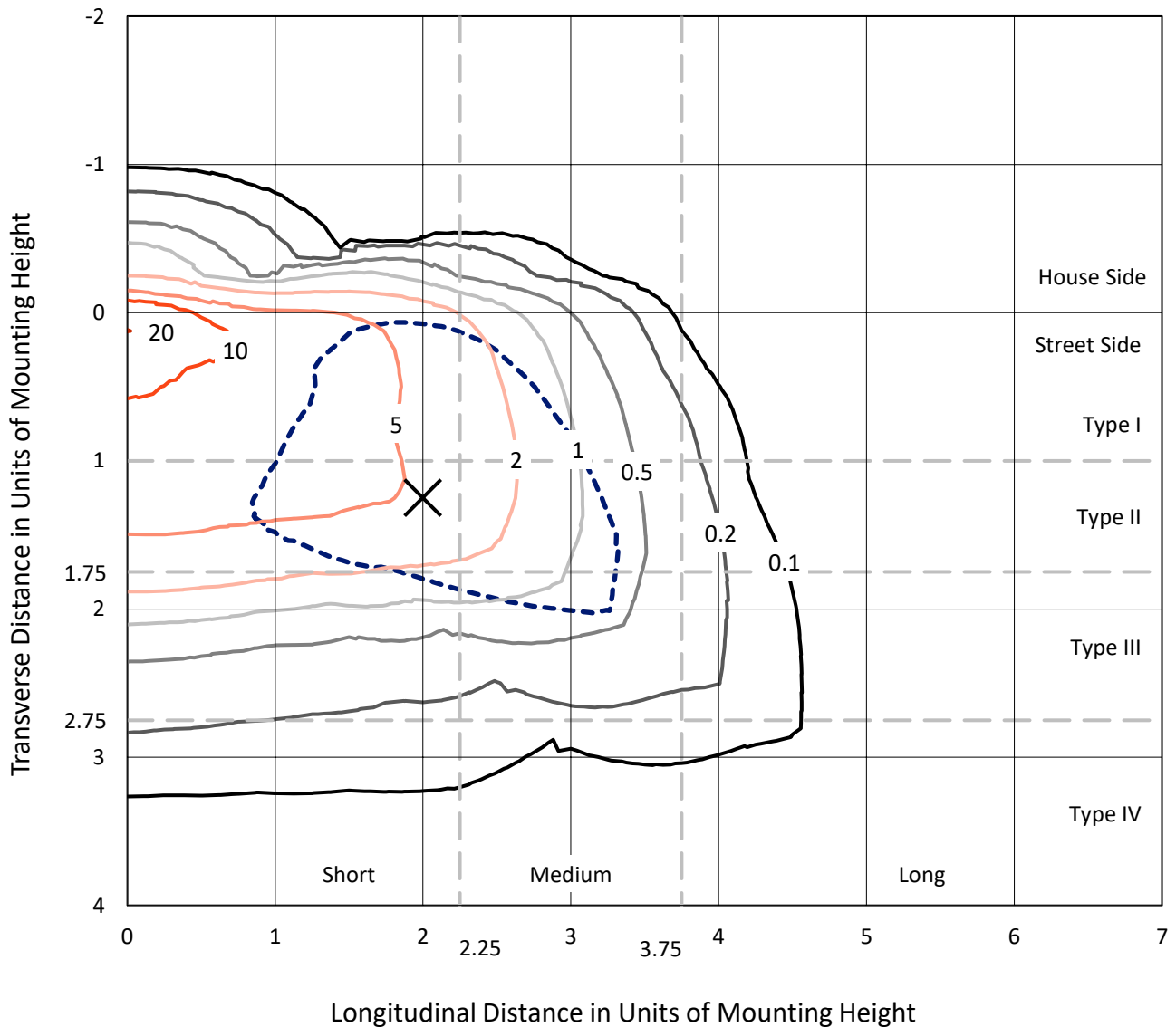
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457187
 CATALOG NUMBER: GALN-SA8C-730-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

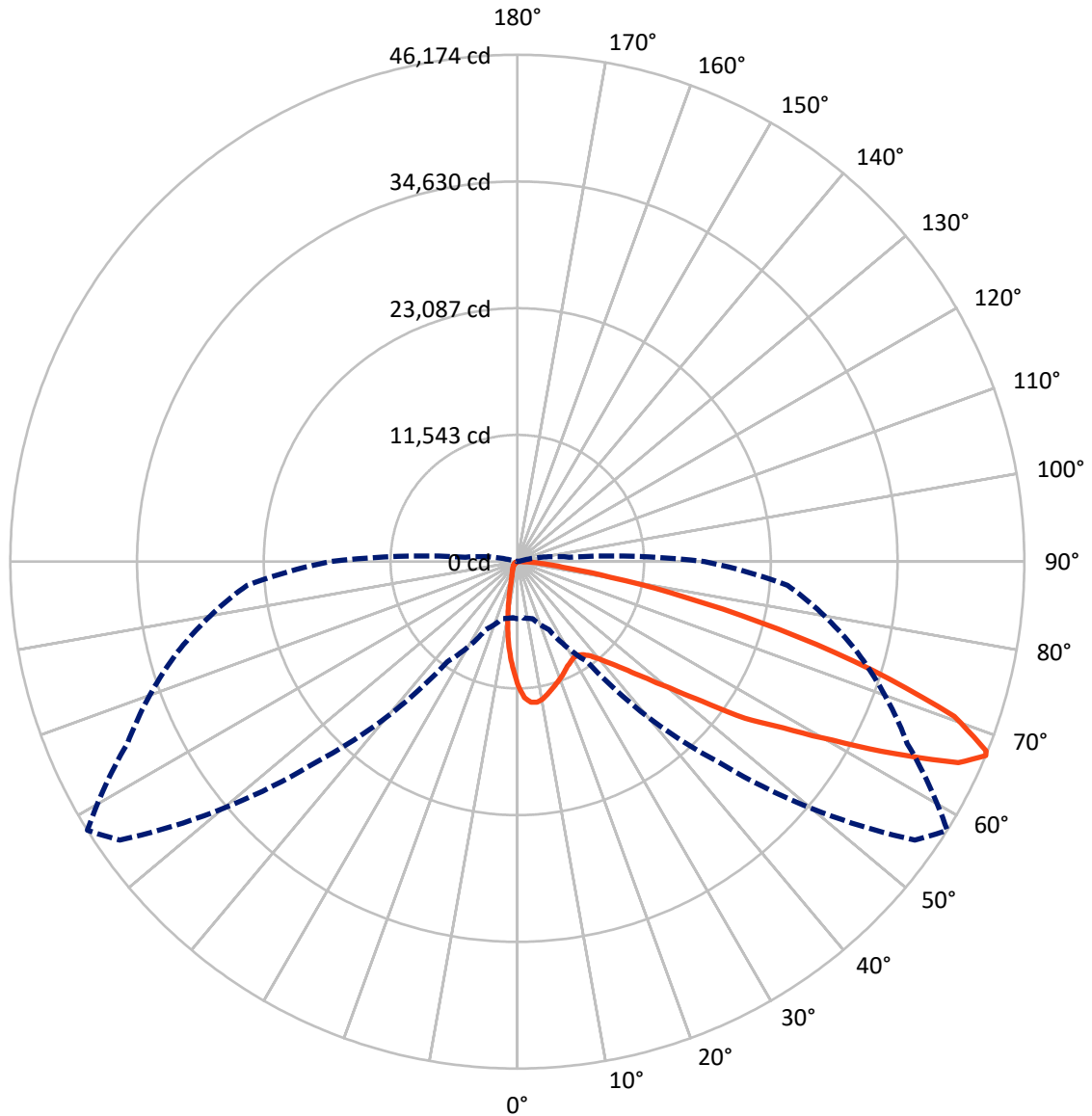
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.1 fc
 Type III - Short - N/A

REPORT NUMBER: P457187
CATALOG NUMBER: GALN-SA8C-730-U-SL3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P457187

CATALOG NUMBER: GALN-SA8C-730-U-SL3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3086.5	0.0	3086.5
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	39682.5	0.0	39682.5
	% Fixture	92.8	0.0	92.8
Total	Lumens	42769.0	0.0	42769.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	920.0	2.2
10°-20°	1987.0	4.6
20°-30°	2692.6	6.3
30°-40°	3734.4	8.7
40°-50°	5956.0	13.9
50°-60°	10295.4	24.1
60°-70°	11760.6	27.5
70°-80°	4903.1	11.5
80°-90°	519.9	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°	42769.0	100.0
0°-180°	42769.0	100.0

Coefficient of Utilization



REPORT NUMBER: P457187

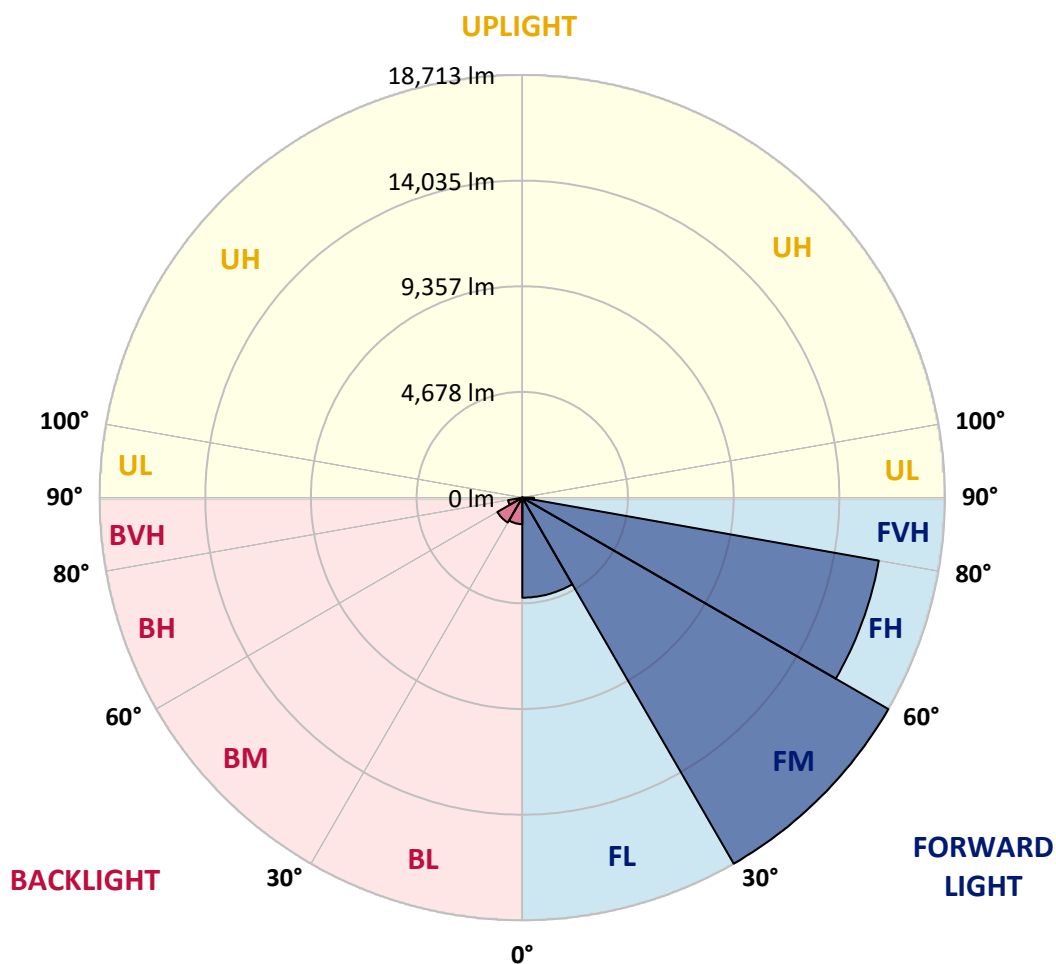
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4427.6	10.4			
FM (30°-60°)	18713.2	43.8			
FH (60°-80°)	16025.6	37.5			G5
FVH (80°-90°)	516.1	1.2			G4/750
BL (0°-30°)	1172.0	2.7	B3/2500		
BM (30°-60°)	1272.6	3.0	B2/2500		
BH (60°-80°)	638.1	1.5	B2/1000		G2/1000
BVH (80°-90°)	3.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





REPORT NUMBER: P457187

CATALOG NUMBER: GALN-SA8C-730-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	11337.7	11337.7	11337.7	11337.7	11337.7	11337.7	11337.7	11337.7	11337.7	11337.7	11337.7
2.5°	13158.2	13178.2	13103.9	13043.9	12889.6	12723.8	12503.7	12386.6	12186.5	11840.7	11457.7
5°	13466.9	13492.6	13481.2	13466.9	13406.9	13246.8	12966.7	12863.8	12569.5	12006.4	11314.8
7.5°	12781.0	12875.3	12886.7	12998.2	13103.9	13118.2	13012.5	12935.3	12663.8	12003.6	11060.4
10°	11872.1	11935.0	12026.4	12155.1	12409.4	12620.9	12723.8	12712.4	12555.2	11915.0	10763.2
12.5°	10954.7	10989.0	11129.0	11349.1	11660.6	12020.7	12295.1	12349.4	12352.3	11809.2	10514.6
15°	10165.9	10151.6	10260.2	10514.6	10951.8	11403.4	11895.0	11980.7	12117.9	11706.4	10283.1
17.5°	9491.4	9565.7	9582.9	9862.9	10265.9	10851.8	11477.7	11629.2	11903.6	11617.8	10091.6
20°	9074.1	9114.1	9151.3	9308.5	9671.5	10288.8	11086.2	11294.8	11703.5	11537.7	9877.2
22.5°	8951.2	8977.0	8945.5	8994.1	9251.3	9800.1	10660.3	10937.5	11512.0	11463.4	9702.9
25°	9045.6	9071.3	8997.0	8939.8	9028.4	9402.8	10248.8	10586.0	11357.7	11449.1	9571.4
27.5°	9274.2	9322.8	9219.9	9117.0	9065.6	9188.5	9925.8	10317.4	11251.9	11517.7	9511.4
30°	9631.4	9660.0	9582.9	9457.1	9339.9	9217.0	9757.2	10131.6	11223.3	11677.8	9505.7
32.5°	10020.1	10080.2	10037.3	9954.4	9802.9	9511.4	9805.8	10137.3	11291.9	11909.3	9577.1
35°	10500.3	10568.9	10608.9	10591.7	10397.4	10034.4	10114.4	10394.5	11474.9	12335.1	9771.5
37.5°	10971.8	11031.9	11257.6	11334.8	11163.3	10820.4	10714.6	10900.4	11877.8	12892.4	10123.0
40°	11512.0	11592.0	11909.3	12203.6	12120.8	11760.7	11566.3	11720.6	12495.2	13732.7	10788.9
42.5°	12029.3	12172.2	12655.2	13175.4	13252.5	12849.5	12720.9	12772.4	13409.7	14941.6	11717.8
45°	12763.8	12898.1	13521.2	14227.1	14590.1	14275.7	14144.2	14135.6	14664.4	16642.1	13223.9
47.5°	13824.1	13944.2	14678.7	15376.0	16021.9	16064.8	15816.1	15901.9	16242.0	18631.3	15070.2
50°	15124.5	15407.5	15890.5	16616.4	17479.5	18176.9	18254.0	18139.7	18431.2	20934.8	17288.0
52.5°	17013.6	17122.3	17565.2	18162.6	19174.3	20357.5	21274.9	21117.7	21026.3	23129.8	19528.7
55°	18422.6	18568.4	19257.2	20077.4	21560.7	23121.2	25110.4	25164.7	24010.0	25239.0	21720.8
57.5°	17996.8	18219.7	19262.9	20912.0	24172.9	27025.2	28505.6	28542.8	26770.8	27288.1	24195.8
60°	15810.4	15916.2	17410.9	19611.6	24395.9	31255.0	33321.4	33021.3	29580.3	29580.3	26382.2
62.5°	11211.9	11377.7	12589.5	15827.6	22032.3	32724.1	39088.8	38468.6	33450.0	31772.3	27685.4
65°	7165.0	7004.9	7808.0	9991.6	16413.5	30554.8	44110.3	44147.5	37091.1	32649.7	26973.8
67°	5190.1	5127.2	5358.7	6830.6	11129.0	25684.8	44216.1	46173.8	39183.1	32095.3	24698.8
67.5°	4747.1	4795.7	4964.3	6161.8	10111.6	23372.7	43735.9	46053.7	39654.7	31760.9	23875.7
70°	3598.2	3515.3	3698.2	4358.4	6061.8	14744.4	37622.7	42238.3	39068.8	28442.8	19077.1
72.5°	2646.5	2637.9	2892.3	3563.9	4667.1	7853.8	28242.7	33867.2	31918.1	21657.9	12012.2
75°	1786.2	1866.3	2272.1	2978.0	4229.8	5092.9	19254.3	24570.2	22158.0	12298.0	4910.0
77.5°	1017.4	1023.2	1463.3	2392.1	3798.3	4098.4	11409.1	15653.2	11729.2	4089.8	1457.6
80°	440.1	483.0	725.9	1737.7	3149.5	3629.7	6542.0	8602.6	4744.3	866.0	471.6
82.5°	162.9	191.5	320.1	1068.9	2297.8	2989.5	3952.6	4106.9	1609.1	305.8	294.4
85°	0.0	5.7	117.2	500.1	1197.5	1334.7	2640.8	2435.0	711.6	145.8	191.5
87.5°	0.0	0.0	0.0	51.4	157.2	497.3	820.2	914.6	171.5	51.4	45.7
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°	11337.7	11337.7	11337.7	11337.7	11337.7	11337.7	11337.7	11337.7	11337.7	11337.7	11337.7
2.5°	11251.9	11066.2	10600.3	10134.5	9788.6	9500.0	9065.6	8828.3	8702.6	8516.8	8528.3
5°	10969.0	10591.7	9771.5	8922.7	8236.7	7568.0	6767.7	6444.8	6173.3	6018.9	5916.1
7.5°	10548.9	9991.6	8776.9	7645.1	6590.5	5421.6	4544.2	3958.3	3563.9	3418.2	3278.1
10°	10088.7	9348.5	7768.0	6199.0	4735.7	3529.6	2786.5	2249.2	2057.8	1880.6	1897.7
12.5°	9662.9	8762.6	6842.0	4892.9	3318.1	2243.5	1749.1	1529.0	1466.2	1446.1	1446.1
15°	9314.2	8202.4	5847.5	3678.2	2275.0	1611.9	1400.4	1340.4	1317.5	1311.8	1311.8
17.5°	8942.7	7670.9	4950.0	2718.0	1654.8	1349.0	1277.5	1237.5	1228.9	1223.2	1223.2
20°	8611.1	7136.4	4098.4	2023.5	1337.5	1214.6	1168.9	1143.2	1134.6	1128.9	1131.8
22.5°	8296.8	6662.0	3298.1	1529.0	1177.5	1106.0	1060.3	1034.6	1017.4	1003.2	1006.0
25°	8016.7	6204.7	2652.2	1251.8	1060.3	997.4	951.7	914.6	877.4	860.3	857.4
27.5°	7819.5	5804.6	2066.3	1071.7	954.6	886.0	828.8	783.1	734.5	708.8	703.1
30°	7656.6	5398.8	1634.8	946.0	848.8	783.1	711.6	645.9	594.5	568.7	557.3
32.5°	7550.8	5012.9	1289.0	843.1	760.2	680.2	600.2	534.4	477.3	451.6	445.8
35°	7533.7	4690.0	1054.6	757.4	680.2	594.5	511.6	440.1	391.5	365.8	360.1
37.5°	7656.6	4441.3	883.1	688.8	614.5	520.2	428.7	363.0	320.1	300.1	297.2
40°	7985.2	4284.1	765.9	631.6	554.5	451.6	365.8	308.7	265.8	245.8	245.8
42.5°	8611.1	4289.9	688.8	577.3	494.4	385.8	311.5	257.2	220.1	202.9	197.2
45°	9588.6	4484.2	623.0	523.0	437.3	334.4	265.8	211.5	174.3	160.0	160.0
47.5°	10897.5	4870.0	565.9	468.7	385.8	285.8	225.8	171.5	140.0	125.8	125.8
50°	12609.5	5490.2	517.3	423.0	343.0	245.8	182.9	140.0	108.6	97.2	94.3
52.5°	14398.6	6256.2	460.1	383.0	294.4	208.6	148.6	108.6	82.9	74.3	71.4
55°	16373.5	7004.9	405.8	343.0	240.1	174.3	117.2	85.7	60.0	51.4	51.4
57.5°	18365.5	7739.5	340.1	285.8	188.6	128.6	91.5	62.9	40.0	31.4	31.4
60°	20051.7	7976.7	288.7	231.5	142.9	91.5	65.7	40.0	22.9	14.3	14.3
62.5°	20283.2	7176.4	242.9	177.2	102.9	62.9	34.3	22.9	8.6	5.7	5.7
65°	19025.7	5830.3	202.9	134.3	68.6	31.4	14.3	8.6	2.9	0.0	0.0
67°	17047.9	4727.1	165.8	100.0	48.6	20.0	8.6	2.9	0.0	0.0	0.0
67.5°	16542.1	4507.1	160.0	94.3	42.9	17.1	5.7	2.9	0.0	0.0	0.0
70°	12981.0	3375.3	114.3	57.2	25.7	11.4	0.0	0.0	0.0	0.0	0.0
72.5°	8068.1	1909.1	82.9	34.3	17.1	5.7	0.0	0.0	0.0	0.0	0.0
75°	3049.5	668.8	57.2	22.9	11.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	948.9	254.4	34.3	17.1	5.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	320.1	97.2	22.9	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	197.2	40.0	14.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	122.9	17.1	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.9	5.7	2.9	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)