

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: P459038

Luminaire Tested: **GALN-SA5C-735-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459038
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26871 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

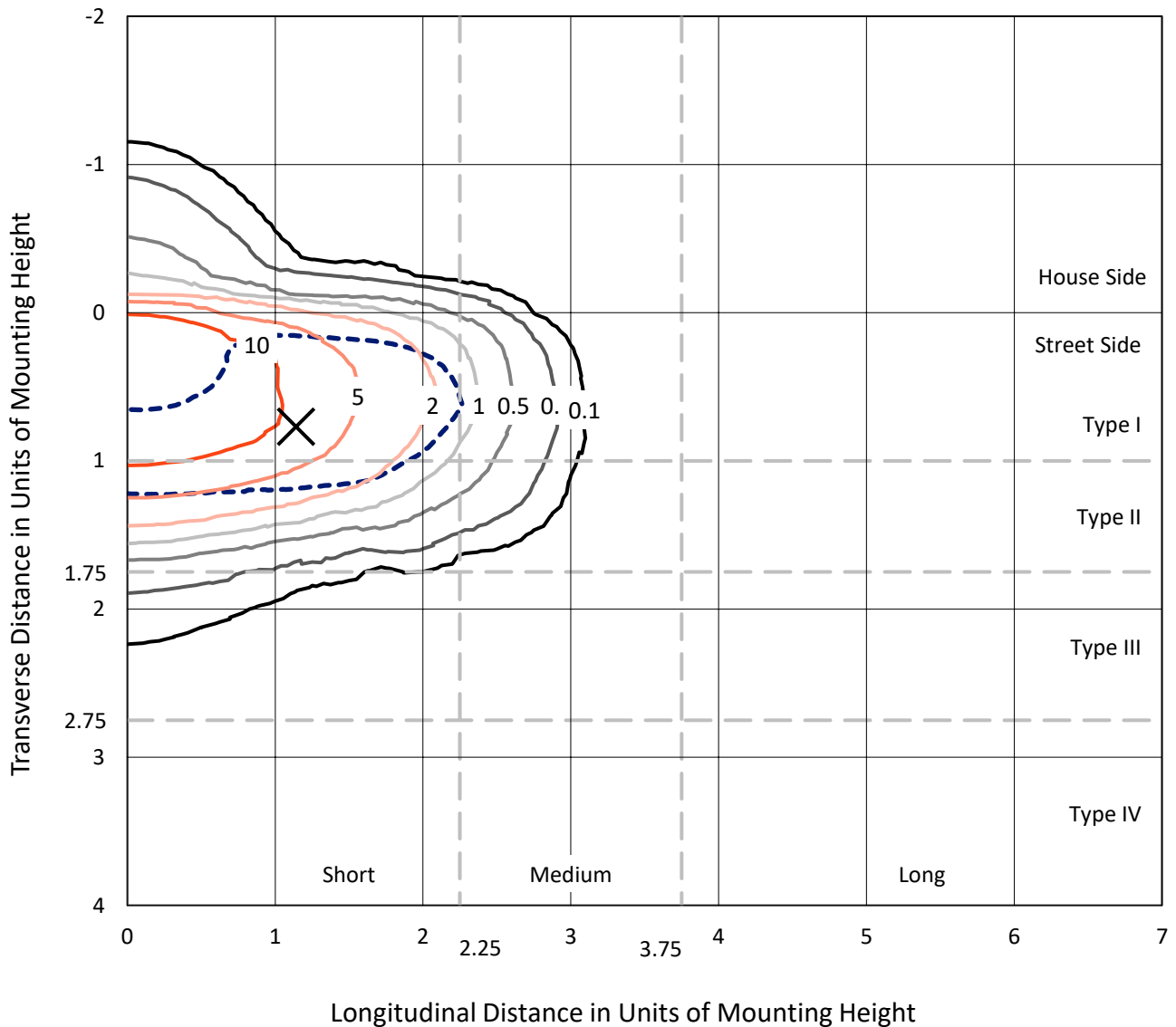
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

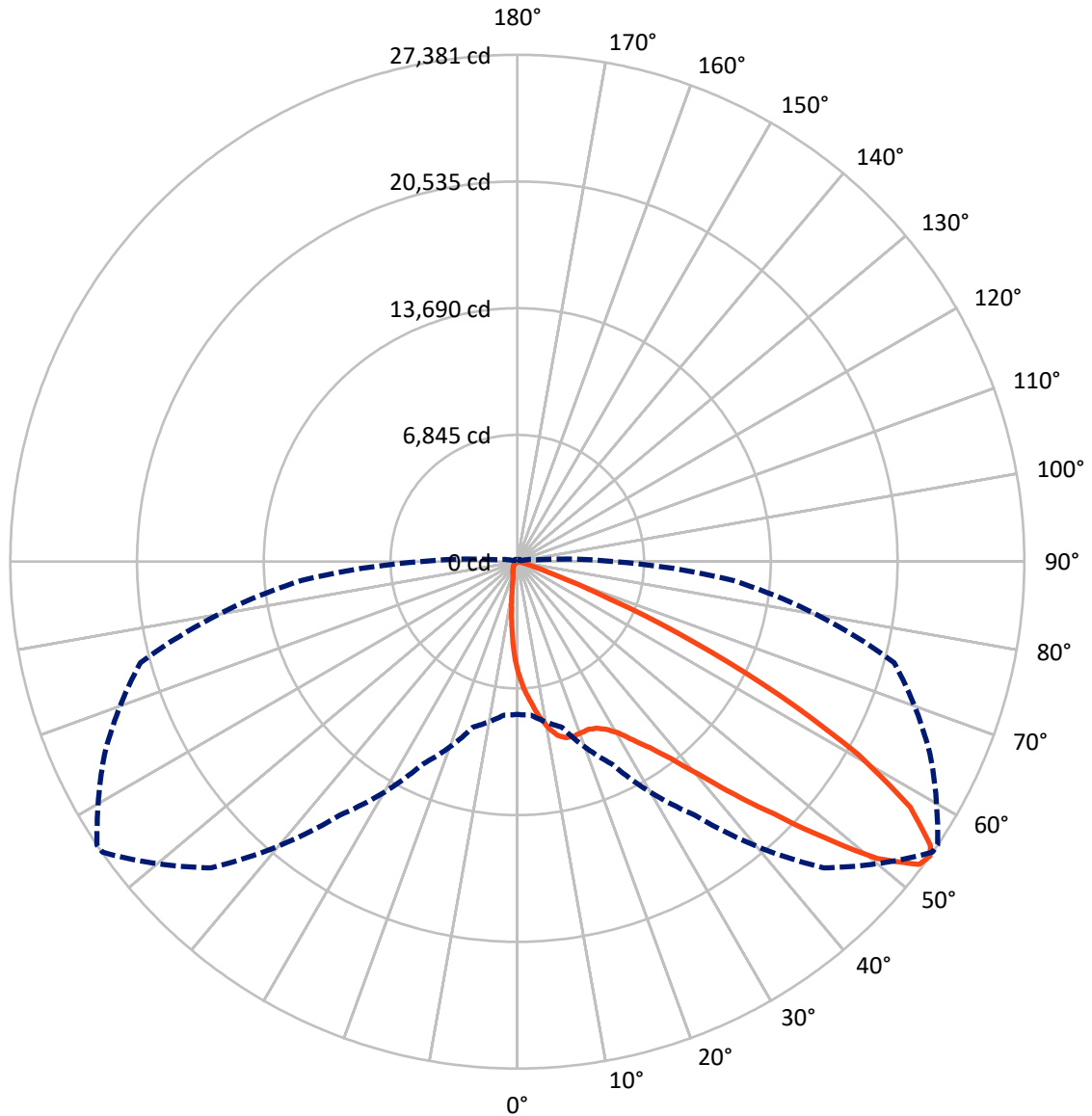
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1270.7	0.0	1270.7
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	25600.3	0.0	25600.3
	% Fixture	95.3	0.0	95.3
Total	Lumens	26871.0	0.0	26871.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	527.5	2.0
10°-20°	1426.1	5.3
20°-30°	2469.9	9.2
30°-40°	4263.5	15.9
40°-50°	7256.6	27.0
50°-60°	7181.3	26.7
60°-70°	3277.7	12.2
70°-80°	420.9	1.6
80°-90°	47.4	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°	26871.0	100.0
0°-180°	26871.0	100.0

Coefficient of Utilization



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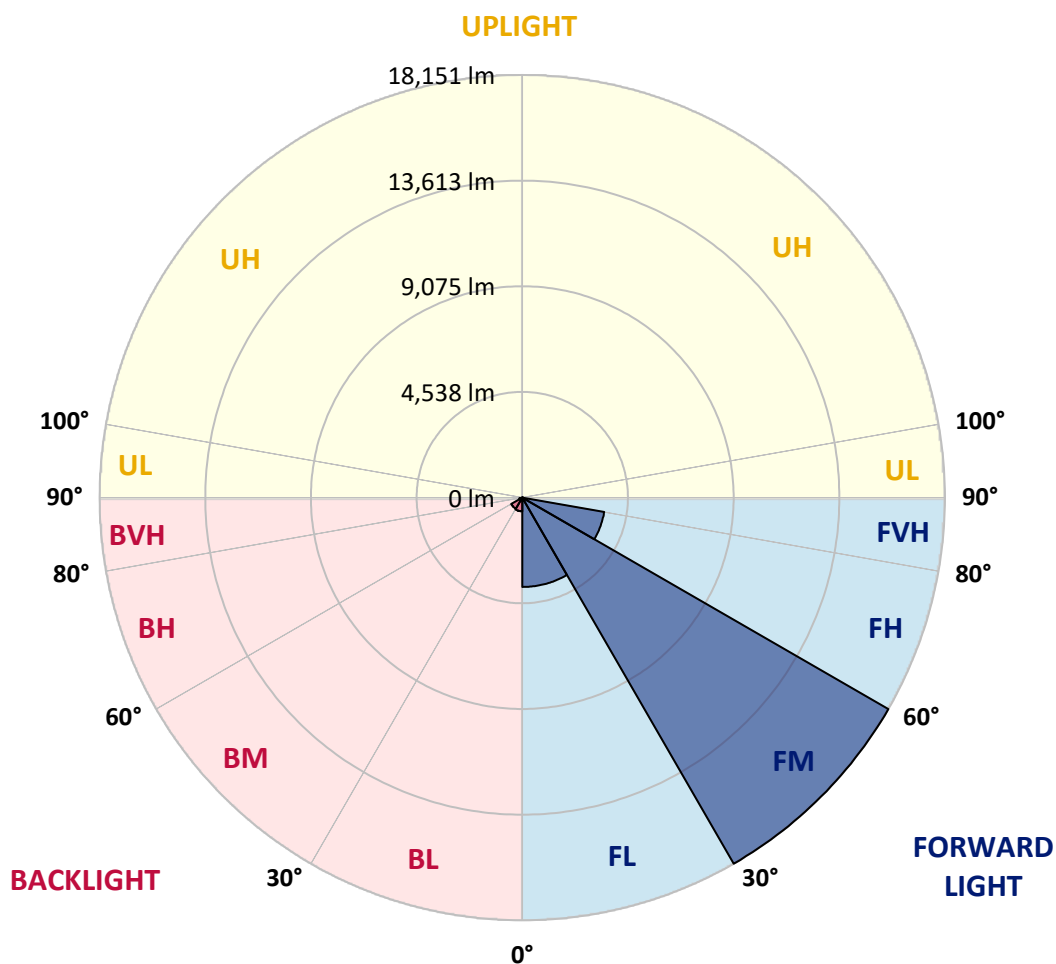
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3835.9	14.3			
FM (30°-60°)	18150.7	67.5			
FH (60°-80°)	3571.4	13.3			G2/5000
FVH (80°-90°)	42.3	0.2			G1/100
BL (0°-30°)	587.7	2.2	B2/1000		
BM (30°-60°)	550.7	2.0	B1/1000		
BH (60°-80°)	127.2	0.5	B1/500		G1/500
BVH (80°-90°)	5.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5970.0	5970.0	5970.0	5970.0	5970.0	5970.0	5970.0	5970.0	5970.0	5970.0	5970.0
2.5°	7587.1	7534.5	7462.0	7405.8	7273.5	7083.1	6881.9	6881.9	6687.9	6417.8	6142.2
5°	8751.0	8716.5	8645.8	8500.8	8352.1	8085.6	7681.4	7610.7	7264.4	6774.9	6260.0
7.5°	9224.2	9240.5	9244.1	9206.0	9135.3	8872.5	8471.8	8422.9	7869.9	7213.6	6414.1
10°	8770.9	8850.7	8928.7	9086.4	9309.4	9372.8	9146.2	9095.4	8551.6	7657.8	6580.9
12.5°	8096.5	8140.0	8183.5	8431.9	8879.7	9392.8	9630.3	9628.4	9168.0	8100.2	6793.0
15°	7782.9	7821.0	7824.6	7935.2	8323.1	9070.1	9836.9	9864.1	9769.9	8645.8	7021.5
17.5°	7848.2	7879.0	7853.6	7880.8	8083.8	8714.7	9813.4	9904.0	10257.5	9169.8	7228.1
20°	8274.2	8334.0	8236.1	8160.0	8221.6	8620.5	9733.6	9860.5	10602.0	9681.0	7416.7
22.5°	9039.2	9071.9	8948.6	8740.1	8631.3	8818.1	9711.8	9836.9	10895.7	10099.8	7525.5
25°	9889.5	9878.6	9742.7	9508.8	9280.4	9216.9	9855.1	9967.5	11138.6	10476.9	7558.1
27.5°	10739.8	10772.4	10544.0	10253.9	9980.2	9815.2	10176.0	10259.3	11412.4	10906.6	7598.0
30°	11727.8	11675.2	11450.4	11118.7	10805.0	10574.8	10692.6	10716.2	11789.5	11475.8	7703.1
32.5°	13013.2	12868.1	12616.1	12036.0	11811.2	11421.4	11450.4	11479.4	12248.1	12039.6	7830.0
35°	14757.2	14750.0	14256.8	13475.5	12928.0	12443.9	12317.0	12340.6	12942.5	12877.2	8111.0
37.5°	16856.6	16885.6	16323.6	15536.8	14528.8	13760.1	13499.0	13502.7	13997.6	14033.9	8538.9
40°	18566.2	18642.3	18306.9	17775.7	16780.4	15578.5	15139.7	15099.9	15480.6	15435.2	9149.8
42.5°	19302.2	19372.9	19498.0	19682.9	19135.4	18143.8	17108.6	17163.0	17279.0	16961.7	9835.1
45°	18941.4	19053.8	19545.2	20687.3	21202.2	20868.6	19634.0	19443.6	18952.3	18620.6	10524.0
47.5°	17438.5	17712.3	18533.5	20435.3	22237.3	23365.0	22483.9	22231.9	20627.5	19831.6	10962.8
50°	14967.5	14983.8	16127.8	18558.9	21700.7	24940.4	25393.6	25205.1	22188.4	20511.4	11183.9
52.5°	10850.4	11207.5	12255.4	15070.8	19376.5	24701.1	27248.3	27170.3	23798.3	20859.5	11503.0
54°	8248.8	8317.7	9249.5	12043.3	16706.1	23386.7	27362.5	27380.6	24597.8	21069.8	11691.6
55°	6762.2	6597.2	7576.2	10259.3	14884.1	22224.7	26989.0	27076.0	24956.7	21178.6	11831.2
57.5°	3205.3	3207.1	3955.8	5411.6	9322.1	17257.2	24706.5	25014.7	24996.6	21365.3	12260.8
60°	1622.6	1633.4	1798.4	2498.2	4604.8	11472.2	20428.0	21162.3	23073.1	21392.5	12402.2
62.5°	1134.9	1122.2	1095.0	1202.0	1938.0	5830.4	15208.6	15846.8	19603.2	20357.3	11952.6
65°	971.7	944.5	868.4	852.1	979.0	2322.4	9472.5	10513.2	14967.5	17627.1	10672.7
67.5°	830.3	819.4	750.6	708.9	692.5	1011.6	4887.6	5435.2	10230.3	12670.5	8083.8
70°	705.2	699.8	658.1	605.5	560.2	605.5	1812.9	2246.2	5701.7	6822.0	3814.4
72.5°	572.9	578.3	585.6	518.5	471.4	429.7	774.1	901.0	2385.8	2438.4	1334.3
75°	502.2	496.7	496.7	451.4	393.4	319.1	426.0	458.7	730.6	678.0	310.0
77.5°	353.5	340.8	398.8	371.6	328.1	226.6	242.9	257.4	302.8	259.2	145.0
80°	244.7	244.7	255.6	333.6	295.5	165.0	148.7	159.5	179.5	154.1	83.4
82.5°	137.8	141.4	166.8	177.7	172.2	110.6	97.9	99.7	119.7	105.1	52.6
85°	16.3	27.2	96.1	94.3	70.7	48.9	54.4	56.2	74.3	65.3	30.8
87.5°	1.8	3.6	19.9	25.4	18.1	19.9	19.9	19.9	25.4	29.0	21.8
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°	5970.0	5970.0	5970.0	5970.0	5970.0	5970.0	5970.0	5970.0	5970.0	5970.0	5970.0
2.5°	5993.5	5855.7	5527.6	5146.9	4904.0	4508.7	4175.2	3934.0	3874.2	3758.2	3792.6
5°	5986.3	5699.8	5030.9	4323.8	3569.7	3007.6	2588.9	2258.9	2113.9	2017.8	1950.7
7.5°	5989.9	5542.1	4468.9	3343.0	2442.0	1890.9	1502.9	1301.7	1167.5	1111.3	1118.6
10°	6000.8	5364.4	3816.2	2476.5	1647.9	1221.9	984.4	888.3	843.0	835.8	833.9
12.5°	6026.2	5170.5	3192.6	1838.3	1153.0	888.3	797.7	765.1	750.6	750.6	745.1
15°	6053.4	4956.5	2674.1	1366.9	888.3	763.2	721.5	705.2	696.2	696.2	694.4
17.5°	6053.4	4710.0	2190.0	1060.6	765.1	701.6	669.0	647.2	640.0	640.0	638.1
20°	6015.3	4423.5	1760.4	853.9	694.4	643.6	611.0	587.4	578.3	574.7	572.9
22.5°	5882.9	4041.0	1401.4	734.2	636.3	592.8	551.1	523.9	516.7	513.1	514.9
25°	5647.3	3609.5	1109.5	645.4	583.8	531.2	494.9	475.0	467.7	467.7	469.5
27.5°	5404.3	3158.1	879.3	578.3	520.3	473.2	444.2	431.5	429.7	435.1	436.9
30°	5179.5	2704.9	712.5	523.9	464.1	424.2	404.3	400.7	400.7	402.5	404.3
32.5°	4929.3	2307.9	596.5	476.8	418.8	384.3	373.5	373.5	377.1	377.1	380.7
35°	4771.6	1967.0	523.9	431.5	384.3	355.3	348.1	349.9	355.3	362.6	366.2
37.5°	4686.4	1695.1	476.8	395.2	351.7	331.8	324.5	328.1	340.8	353.5	355.3
40°	4693.7	1490.2	438.7	364.4	326.3	304.6	299.1	310.0	322.7	335.4	337.2
42.5°	4773.4	1337.9	402.5	328.1	304.6	273.8	271.9	282.8	288.3	300.9	302.8
45°	4867.7	1227.4	364.4	290.1	264.7	237.5	239.3	248.4	255.6	275.6	279.2
47.5°	4896.7	1151.2	320.9	246.6	217.6	208.5	210.3	215.7	230.2	248.4	250.2
50°	4929.3	1104.1	279.2	208.5	184.9	183.1	184.9	188.5	197.6	204.9	203.0
52.5°	5068.9	1102.3	244.7	181.3	157.7	161.4	163.2	161.4	154.1	143.2	139.6
54°	5199.5	1107.7	228.4	168.6	145.0	150.5	148.7	139.6	121.5	110.6	105.1
55°	5304.6	1113.1	219.4	159.5	137.8	139.6	141.4	123.3	99.7	88.8	85.2
57.5°	5511.3	1100.4	197.6	139.6	121.5	114.2	112.4	81.6	54.4	47.1	43.5
60°	5408.0	993.5	179.5	119.7	103.3	92.5	76.1	45.3	27.2	19.9	19.9
62.5°	5001.9	843.0	159.5	97.9	85.2	70.7	39.9	25.4	12.7	7.3	5.4
65°	4474.3	708.9	143.2	78.0	67.1	45.3	21.8	16.3	5.4	0.0	0.0
67.5°	3326.7	525.7	121.5	61.6	50.8	29.0	14.5	9.1	1.8	0.0	0.0
70°	1541.0	320.9	103.3	47.1	36.3	21.8	10.9	5.4	0.0	0.0	0.0
72.5°	442.4	201.2	85.2	34.4	25.4	18.1	9.1	3.6	1.8	0.0	0.0
75°	154.1	161.4	63.5	25.4	19.9	12.7	7.3	3.6	1.8	0.0	0.0
77.5°	92.5	130.5	39.9	21.8	16.3	10.9	7.3	3.6	1.8	1.8	0.0
80°	52.6	87.0	25.4	18.1	14.5	9.1	5.4	3.6	1.8	1.8	0.0
82.5°	29.0	41.7	19.9	16.3	12.7	9.1	5.4	3.6	1.8	1.8	1.8
85°	23.6	21.8	16.3	14.5	10.9	7.3	5.4	1.8	0.0	0.0	0.0
87.5°	18.1	14.5	14.5	14.5	10.9	7.3	5.4	1.8	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)