

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: P383497

Luminaire Tested: **GLEON-SA8A-735-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383497
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8A-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 615mA 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: 28482.1 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

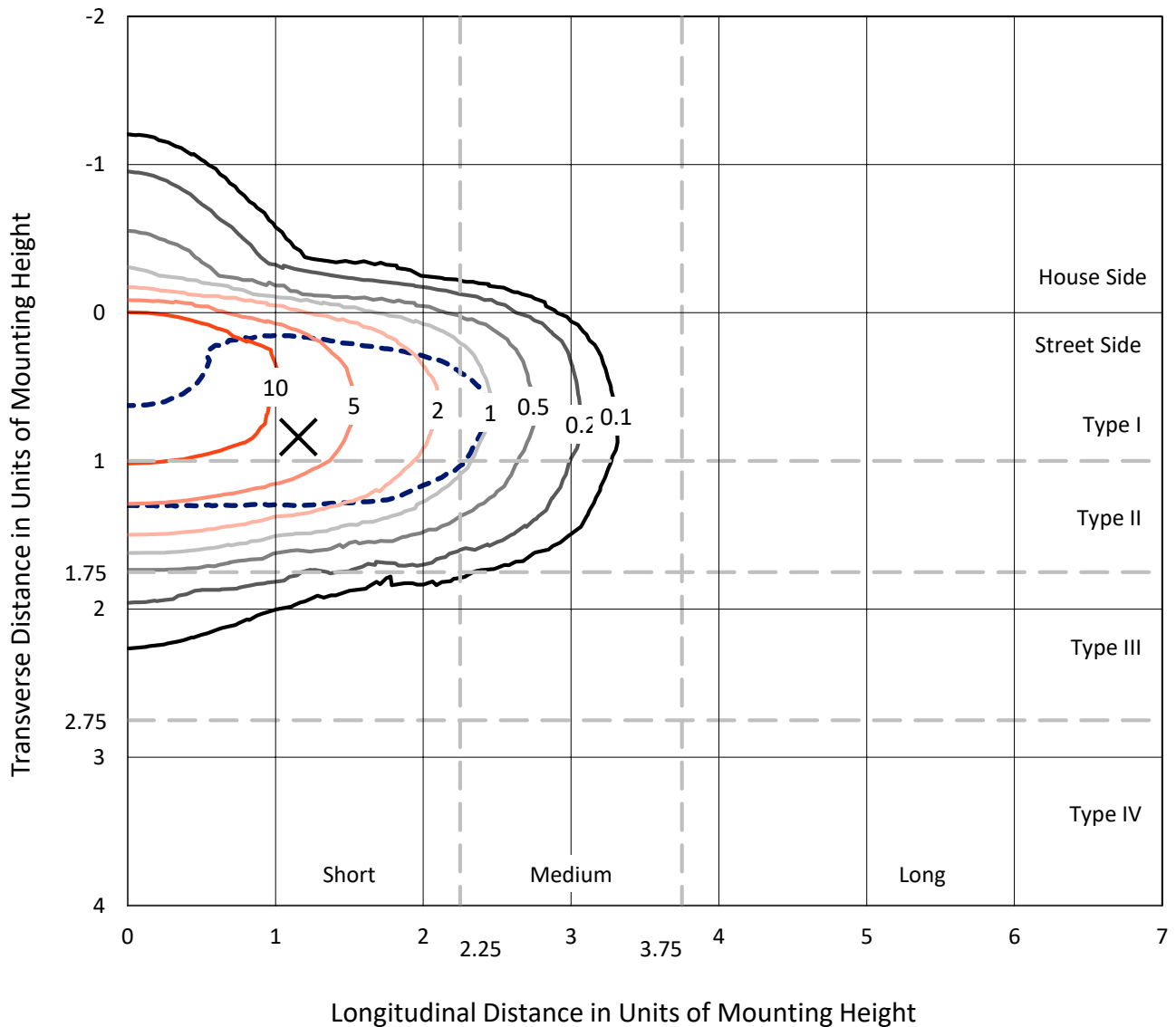
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

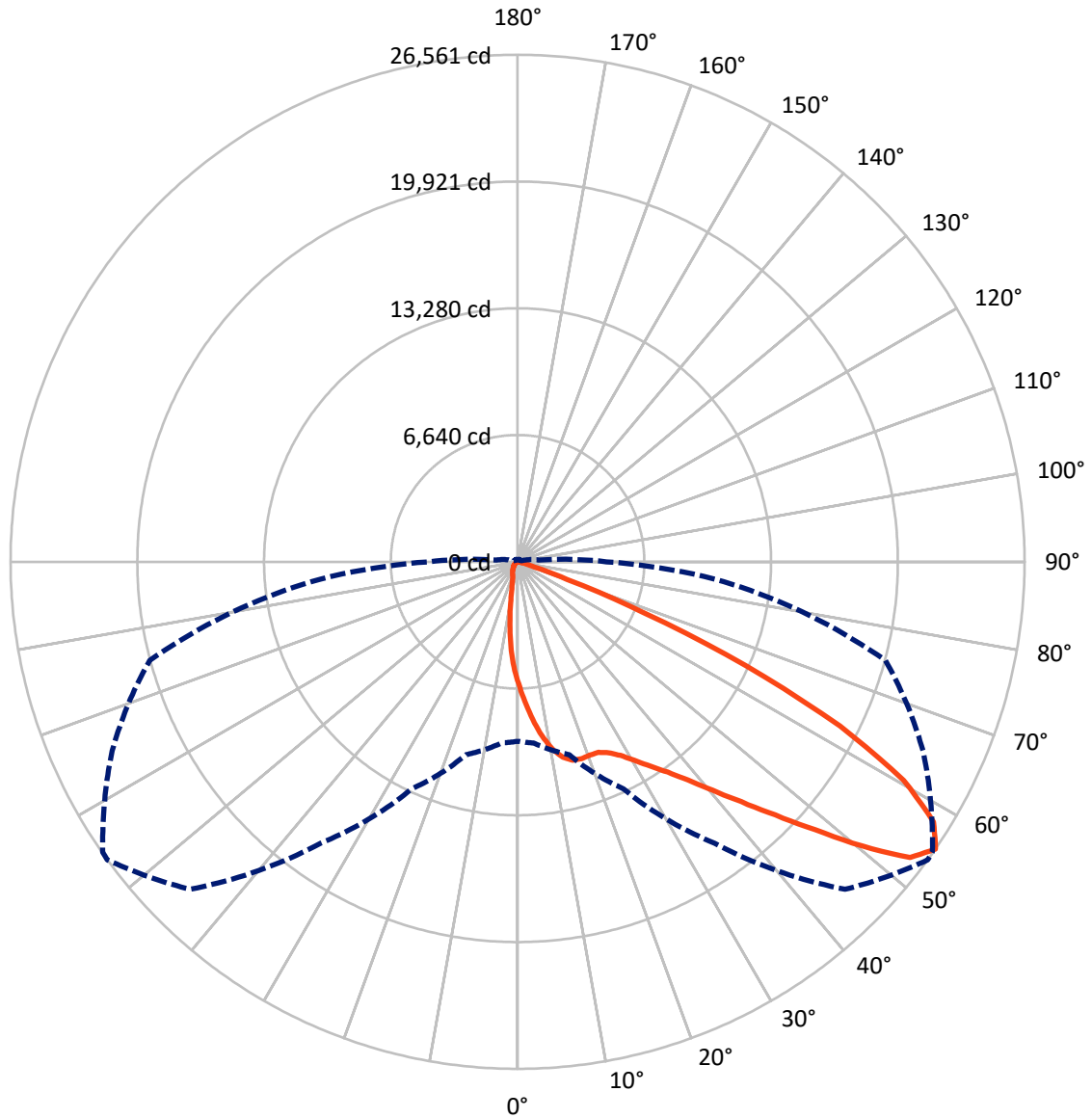
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1421.0	0.0	1421.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	27061.0	0.0	27061.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	28482.1	0.0	28482.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	587.4	2.1
10°-20°	1611.0	5.7
20°-30°	2750.5	9.7
30°-40°	4414.1	15.5
40°-50°	7053.8	24.8
50°-60°	7558.3	26.5
60°-70°	3880.7	13.6
70°-80°	587.8	2.1
80°-90°	38.3	0.1
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°	28482.1	100.0
0°-180°	28482.1	100.0

Coefficient of Utilization

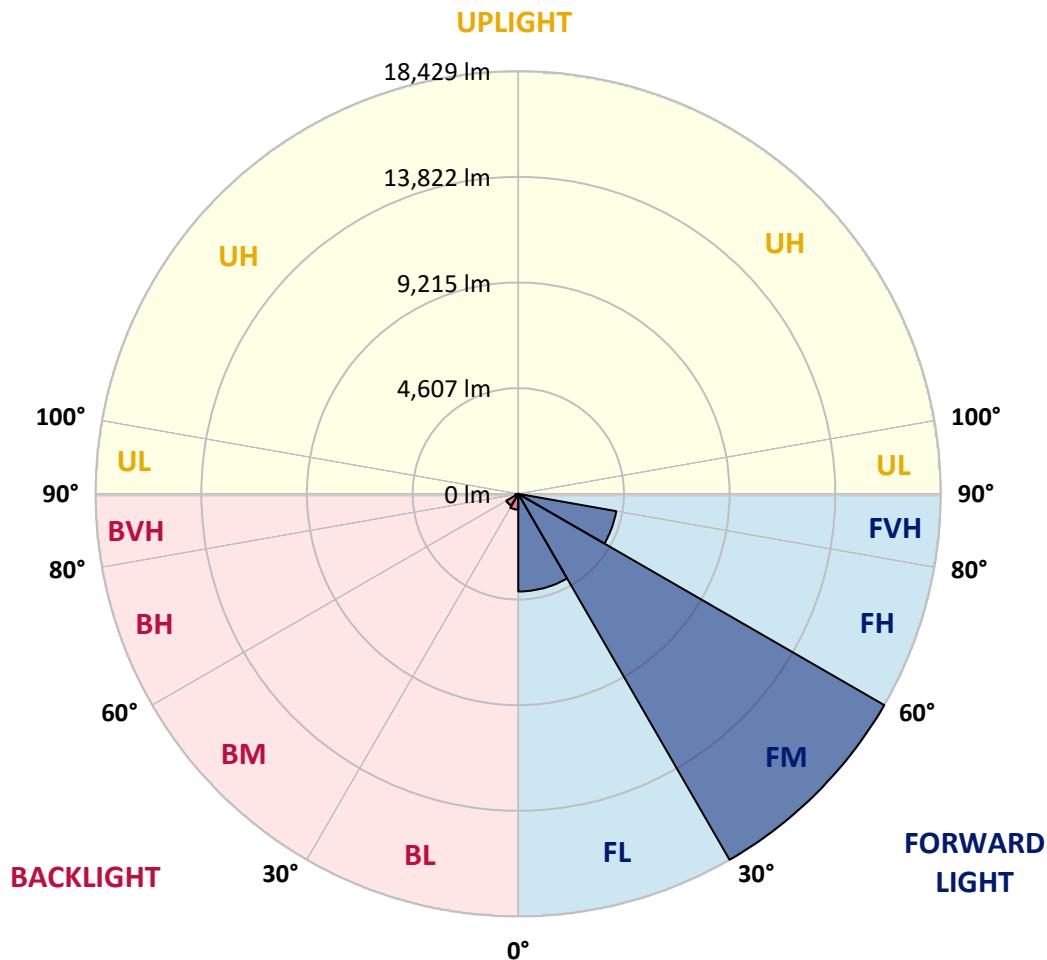


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4257.6	14.9			
FM (30°-60°)	18429.2	64.7			
FH (60°-80°)	4337.5	15.2			G2/5000
FVH (80°-90°)	36.7	0.1			G1/100
BL (0°-30°)	691.4	2.4	B2/1000		
BM (30°-60°)	597.2	2.1	B1/1000		
BH (60°-80°)	131.0	0.5	B1/500		G1/500
BVH (80°-90°)	1.5	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°	54°	55°	65°	75°	85°
0°	6378.9	6378.9	6378.9	6378.9	6378.9	6378.9	6378.9	6378.9	6378.9	6378.9	6378.9
2.5°	8004.9	7885.6	7889.3	7835.2	7637.1	7482.2	7321.0	7282.9	7032.0	6768.7	6515.3
5°	9388.7	9301.3	9280.4	9175.9	8900.4	8608.9	8296.5	8223.9	7733.1	7194.3	6664.2
7.5°	10099.7	10100.9	10083.6	10045.5	9873.3	9590.4	9209.1	9132.8	8465.0	7656.9	6819.2
10°	9892.9	9939.7	10035.7	10162.3	10294.0	10258.3	9971.7	9902.8	9177.1	8146.4	6991.4
12.5°	9410.8	9417.0	9524.0	9731.9	10110.7	10499.4	10504.3	10480.9	9857.4	8658.1	7180.8
15°	9171.0	9194.4	9233.7	9367.7	9726.9	10349.3	10794.6	10827.8	10480.9	9201.7	7382.5
17.5°	9328.4	9361.6	9328.4	9344.4	9552.3	10111.9	10845.0	10929.8	11025.8	9739.2	7573.2
20°	9755.3	9786.0	9726.9	9661.7	9702.3	10043.0	10809.3	10923.7	11452.6	10216.5	7733.1
22.5°	10330.9	10343.2	10253.4	10146.3	10116.9	10276.7	10838.8	10957.0	11794.6	10648.2	7833.9
25°	10964.3	10975.4	10863.4	10740.5	10670.3	10735.5	11081.1	11169.7	12096.0	11060.3	7891.8
27.5°	11654.4	11664.2	11524.0	11372.7	11291.5	11294.0	11481.0	11575.6	12417.0	11530.1	7938.5
30°	12383.7	12378.9	12249.7	12039.3	11936.0	11933.6	12056.6	12152.5	12881.9	12132.8	8002.5
32.5°	13202.9	13193.1	13009.8	12749.1	12632.3	12649.5	12758.9	12814.3	13458.8	12774.9	8116.9
35°	14281.6	14253.3	13976.7	13653.1	13437.9	13431.7	13524.0	13568.3	14194.4	13552.2	8307.5
37.5°	15681.4	15655.6	15280.5	14810.6	14508.0	14394.8	14504.3	14560.8	15243.6	14549.8	8613.7
40°	17061.5	17035.7	16813.0	16382.6	15916.3	15644.5	15730.6	15790.8	16553.5	15760.1	9000.0
42.5°	18013.5	18035.7	18113.1	18148.8	17712.2	17141.4	17180.8	17243.5	17929.9	17054.1	9441.6
45°	18264.5	18312.5	18750.3	19610.1	19773.7	19328.4	18916.4	18950.8	19328.4	18348.0	9883.2
47.5°	17510.5	17599.0	18444.0	20043.1	21428.0	21742.9	20963.1	20917.6	20670.4	19394.8	10196.8
50°	15797.0	15878.2	16972.9	19338.3	21929.8	24048.0	23415.8	23281.7	21847.5	20020.9	10307.5
52.5°	13317.3	13415.8	14305.0	17119.3	20984.0	25076.2	25738.0	25626.0	22710.9	20070.1	10325.9
55°	9404.6	9524.0	10464.9	13120.6	17986.4	24258.2	26560.8	26527.7	23428.0	19939.7	10365.3
57.5°	5285.3	5371.5	6386.2	8410.9	13173.4	21129.2	25701.1	25921.2	23861.0	19713.4	10424.4
60°	2346.8	2370.2	2895.4	4186.9	7712.2	16147.6	23239.9	23611.3	23489.5	19410.8	10524.0
62.5°	1301.4	1281.7	1281.7	1740.5	3351.8	9996.3	18950.8	19564.5	21904.0	19052.8	10528.9
65°	1019.7	1001.2	948.3	955.7	1276.8	4436.7	13123.0	14214.0	18893.0	18003.6	10174.6
67.5°	864.7	848.7	795.8	774.9	793.4	1463.7	7210.4	8343.1	14335.8	15276.7	8813.0
70°	730.6	719.5	692.5	666.7	619.9	723.3	2758.9	3528.9	8834.0	10162.3	6016.0
72.5°	587.9	583.1	592.8	570.8	514.1	482.2	943.4	1142.6	3968.0	4535.1	2478.5
75°	506.8	504.3	509.2	487.1	423.1	335.8	479.7	524.0	1119.3	1109.5	501.8
77.5°	329.7	333.3	421.9	412.0	364.0	223.9	248.4	268.1	339.5	254.6	152.5
80°	210.3	207.8	214.0	342.0	327.2	170.9	124.3	130.4	163.6	125.5	73.8
82.5°	127.9	125.5	140.2	159.9	164.8	119.3	76.3	77.5	102.1	81.1	39.4
85°	11.1	14.7	84.9	78.7	56.5	36.9	36.9	39.4	54.1	48.0	22.2
87.5°	0.0	0.0	14.7	22.2	12.3	13.5	13.5	14.7	20.9	20.9	11.1
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°	6378.9	6378.9	6378.9	6378.9	6378.9	6378.9	6378.9	6378.9	6378.9	6378.9	6378.9
2.5°	6383.8	6255.8	5997.6	5749.0	5538.7	5335.8	5104.5	4875.7	4768.8	4725.7	4681.4
5°	6394.8	6131.6	5599.0	5062.7	4506.7	4006.1	3579.4	3141.5	2922.5	2826.6	2782.3
7.5°	6409.6	6008.6	5147.6	4247.2	3351.8	2672.8	2080.0	1698.7	1533.8	1508.0	1444.0
10°	6412.0	5859.8	4623.6	3346.9	2247.3	1611.3	1239.9	1043.1	970.5	958.2	937.2
12.5°	6417.0	5683.8	4041.8	2478.5	1498.1	1077.5	896.7	831.5	811.8	810.5	810.5
15°	6431.7	5499.4	3437.9	1786.0	1076.2	853.7	787.3	761.4	754.0	757.7	756.4
17.5°	6431.7	5281.7	2845.0	1330.9	869.6	767.5	730.6	713.4	711.0	714.6	715.9
20°	6385.0	5017.2	2301.4	1035.7	771.2	712.2	679.0	663.0	656.8	659.3	660.6
22.5°	6273.0	4692.5	1858.5	857.3	706.0	661.8	626.1	601.5	591.6	592.8	592.8
25°	6098.4	4307.5	1453.9	741.7	653.1	607.6	565.8	537.5	531.4	530.1	532.6
27.5°	5874.5	3881.9	1157.4	653.1	590.4	547.4	505.6	482.2	477.2	478.4	479.7
30°	5654.4	3440.3	912.6	578.1	520.3	479.7	447.7	436.6	436.6	440.3	441.6
32.5°	5452.6	3016.0	722.0	512.9	457.6	420.7	402.2	400.9	407.2	409.6	410.8
35°	5279.2	2623.6	597.8	462.5	408.4	376.3	370.2	375.1	382.5	387.4	388.6
37.5°	5156.2	2273.1	522.8	420.7	370.2	344.4	343.2	353.1	362.8	373.9	376.3
40°	5104.5	1976.7	471.1	383.8	339.5	319.8	316.1	329.7	348.1	364.0	366.6
42.5°	5061.5	1734.4	426.8	348.1	314.9	286.6	285.3	302.6	324.7	340.7	344.4
45°	5024.6	1539.9	386.2	309.9	282.9	246.0	249.7	271.8	289.1	306.3	309.9
47.5°	4948.4	1380.1	342.0	269.4	233.7	210.3	217.7	237.4	251.0	276.8	280.5
50°	4811.8	1249.7	296.4	220.2	190.7	182.0	193.1	206.6	223.9	246.0	248.4
52.5°	4719.6	1151.3	257.1	184.5	157.4	159.9	170.9	175.9	185.8	194.3	191.9
55°	4666.7	1097.2	225.1	159.9	134.0	141.4	143.9	137.8	132.8	124.3	120.5
57.5°	4660.5	1048.0	200.5	139.0	118.1	121.8	113.2	92.2	75.0	65.2	62.7
60°	4650.7	987.7	180.8	116.8	104.5	99.7	81.1	50.4	35.7	33.3	33.3
62.5°	4543.6	894.2	166.1	98.4	88.6	75.0	46.8	23.4	19.7	20.9	20.9
65°	4203.0	763.9	151.3	79.9	70.1	54.1	23.4	13.5	7.4	8.6	8.6
67.5°	3573.1	608.9	135.3	61.5	52.9	34.5	13.5	6.1	0.0	0.0	0.0
70°	2392.4	377.6	114.4	43.0	34.5	20.9	9.9	1.2	0.0	0.0	0.0
72.5°	917.6	204.2	92.2	25.8	22.2	14.7	6.1	0.0	0.0	0.0	0.0
75°	206.6	134.0	64.0	18.4	16.0	9.9	2.4	0.0	0.0	0.0	0.0
77.5°	78.7	97.2	36.9	12.3	11.1	6.1	0.0	0.0	0.0	0.0	0.0
80°	38.1	57.8	17.2	7.4	6.1	2.4	0.0	0.0	0.0	0.0	0.0
82.5°	19.7	22.2	7.4	3.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.1	11.1	3.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.1	3.7	1.2	1.2	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)