

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: P383568

Luminaire Tested: **GLEON-SA8C-735-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383568
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8C-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1050mA 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: 42623.9 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

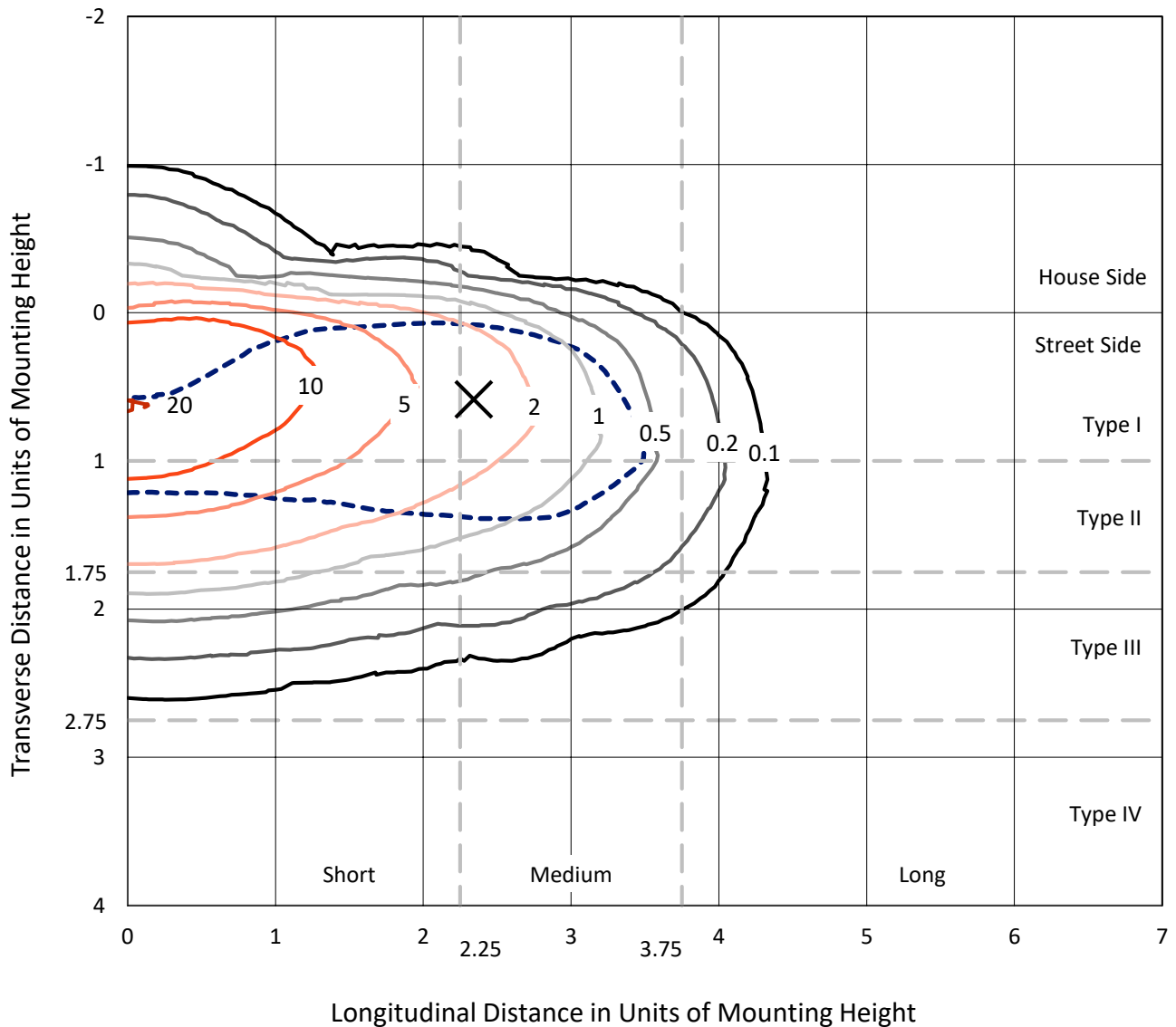
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

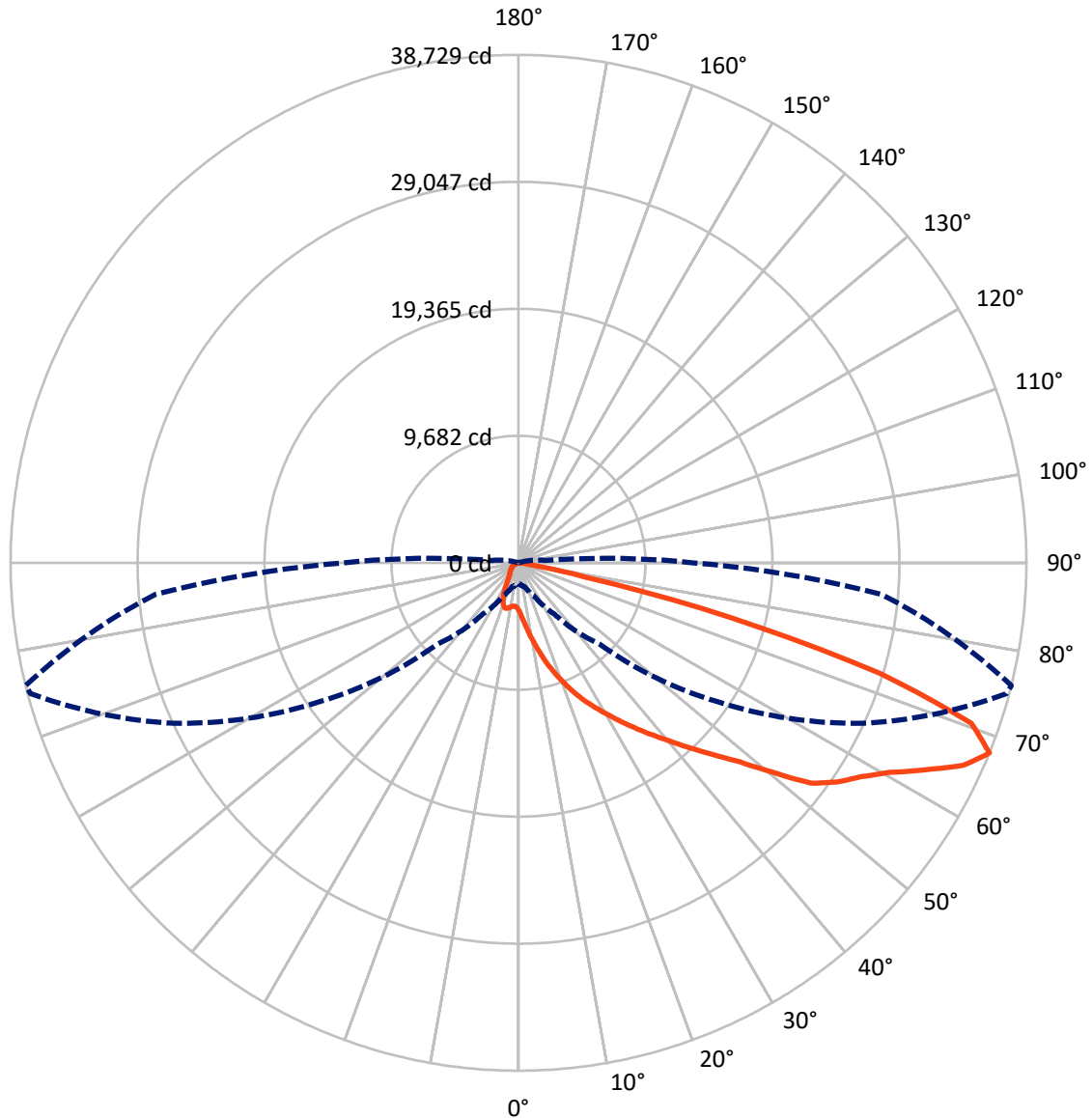
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2116.6	0.0	2116.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	40507.3	0.0	40507.3
	% Fixture	95.0	0.0	95.0
Total	Lumens	42623.9	0.0	42623.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.6	1.1
10°-20°	1782.3	4.2
20°-30°	3626.4	8.5
30°-40°	6294.3	14.8
40°-50°	8893.1	20.9
50°-60°	10085.2	23.7
60°-70°	8364.7	19.6
70°-80°	3029.9	7.1
80°-90°	98.3	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°	42623.9	100.0
0°-180°	42623.9	100.0

Coefficient of Utilization

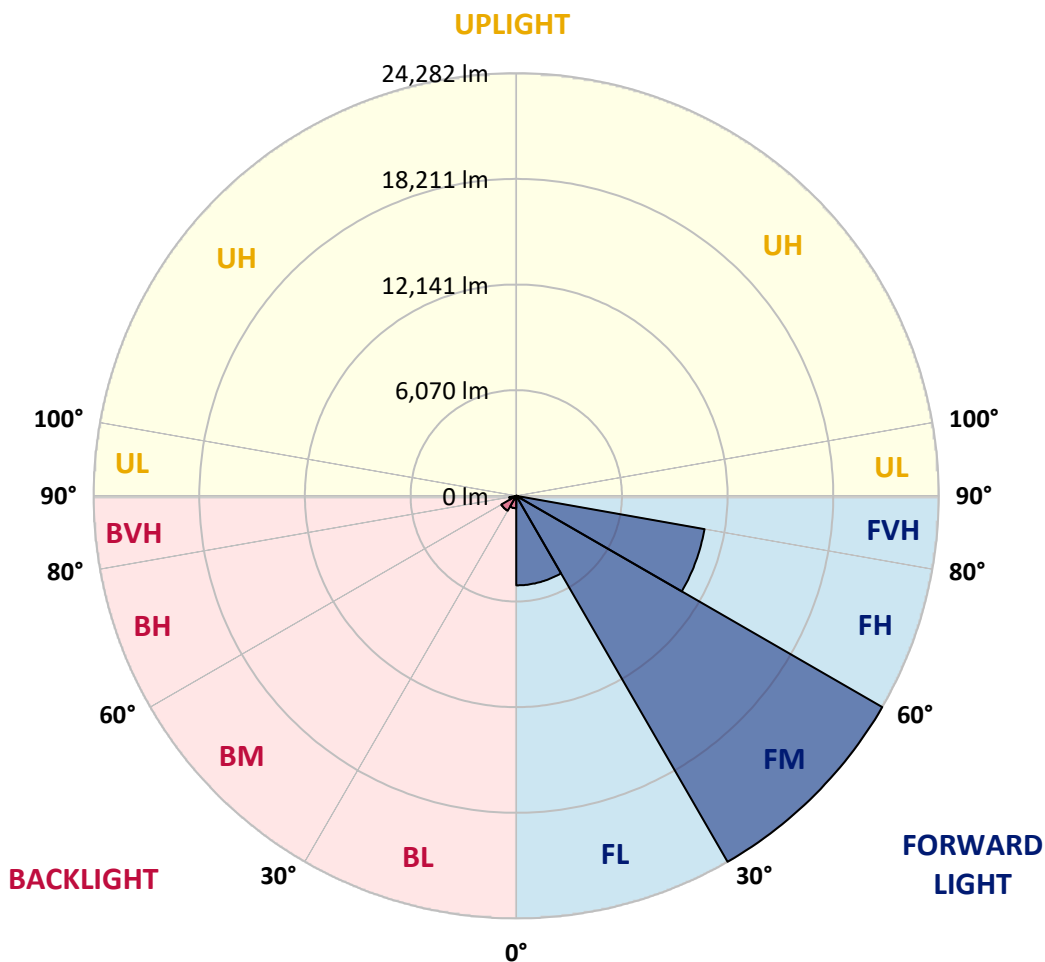


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5144.6	12.1			
FM (30°-60°)	24282.0	57.0			
FH (60°-80°)	10985.6	25.8			G4/12000
FVH (80°-90°)	95.2	0.2			G1/100
BL (0°-30°)	713.8	1.7	B2/1000		
BM (30°-60°)	990.6	2.3	B1/1000		
BH (60°-80°)	409.0	1.0	B1/500		G1/500
BVH (80°-90°)	3.1	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-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3615.7	3615.7	3615.7	3615.7	3615.7	3615.7	3615.7	3615.7	3615.7	3615.7	3615.7
2.5°	5397.5	5276.1	5304.0	5225.6	5083.7	4792.3	4544.0	4308.6	4034.1	4024.8	3798.8
5°	7278.2	7175.4	7162.4	7003.7	6745.9	6251.0	5769.2	5220.0	4607.4	4562.6	4082.7
7.5°	8985.1	8903.0	8873.2	8684.5	8204.5	7722.6	7095.1	6288.3	5330.2	5248.1	4465.6
10°	10296.3	10257.1	10264.5	10130.0	9719.2	9270.9	8447.3	7418.3	6150.1	6023.1	4924.9
12.5°	11289.9	11299.2	11366.5	11284.2	11054.5	10722.1	9842.5	8622.9	7057.8	6884.1	5449.7
15°	12020.1	12066.8	12190.0	12292.8	12275.9	11988.4	11181.6	9846.2	8021.5	7829.1	6034.3
17.5°	12492.6	12544.9	12724.2	12952.1	13161.2	13094.0	12473.9	11026.5	8996.4	8774.2	6660.0
20°	12907.2	12968.8	13161.2	13461.9	13852.2	13936.3	13529.1	12171.4	9969.4	9698.6	7306.2
22.5°	13805.5	13803.7	13921.3	14096.9	14468.6	14685.2	14427.4	13234.0	10931.2	10649.3	7965.5
25°	15430.4	15368.8	15327.7	15189.4	15271.6	15406.1	15262.3	14227.6	11898.7	11613.0	8634.0
27.5°	17361.5	17398.9	17066.4	16694.8	16407.2	16268.9	16033.6	15148.4	12828.8	12515.1	9287.7
30°	19399.1	19410.3	19018.1	18543.8	17910.6	17385.8	16978.7	16028.0	13785.0	13443.3	9922.8
32.5°	21236.9	21164.0	20775.6	20129.3	19330.0	18739.8	17893.8	17010.4	14797.3	14466.7	10628.7
35°	22693.6	22607.7	22135.2	21546.9	20717.7	20123.8	19105.9	17990.9	15861.8	15538.7	11336.6
37.5°	23758.2	23657.3	23171.8	22566.6	21851.3	21505.8	20512.2	19057.3	17023.5	16676.1	12081.7
40°	24128.0	24040.2	23735.7	23293.2	22717.9	22639.5	22004.5	20284.4	18287.9	17918.1	12925.9
42.5°	23907.6	23821.7	23713.4	23564.0	23324.9	23399.6	23412.7	21683.3	19692.4	19328.1	13857.9
45°	23033.5	22957.0	23069.0	23287.6	23584.5	23954.3	24697.6	23186.7	21261.2	20872.7	14935.5
47.5°	21746.7	21690.7	22000.7	22546.1	23414.5	24434.3	25872.3	24766.7	23022.4	22661.9	16280.2
50°	19916.5	19907.1	20527.2	21522.7	22857.9	24665.9	27086.3	26563.4	25469.0	25089.8	18149.7
52.5°	17066.4	17085.1	18304.7	19897.8	21881.2	24508.9	27867.0	28871.7	28315.2	27921.2	19768.9
55°	14352.7	14464.8	15329.5	17626.7	20383.4	23926.2	28135.9	29949.3	29885.9	29512.4	20669.1
57.5°	11695.1	11898.7	12731.6	14877.6	18196.4	22583.4	27988.3	30416.3	31055.0	30769.3	21856.9
60°	8815.2	8908.6	9868.5	11874.4	15389.4	20133.1	26918.2	30670.3	32653.7	32455.8	23580.7
62.5°	5608.5	5841.9	6693.6	8628.5	11982.8	16730.3	25114.1	30666.5	34653.9	34762.3	25805.1
65°	2954.6	3227.3	3679.2	5347.1	8234.4	12929.6	22400.4	30379.0	37108.0	37259.3	27543.9
67.5°	1593.1	1671.6	1910.6	2775.3	4775.6	8759.2	18413.0	28959.6	38529.3	38729.2	27786.7
70°	1165.4	1208.4	1298.0	1535.2	2403.7	5087.5	13435.8	25741.6	36697.1	36622.5	24688.2
72.5°	894.6	961.8	1029.1	1124.3	1382.0	2715.6	8365.1	20157.4	29280.8	28787.7	18454.1
75°	705.9	717.2	812.4	898.3	1036.5	1546.4	3714.7	11739.9	17871.4	16704.1	9569.8
77.5°	564.1	571.5	627.5	702.2	833.0	1016.0	1150.5	4618.7	5705.6	5091.2	2076.8
80°	334.3	353.0	466.9	541.6	691.0	640.6	420.2	1002.9	890.8	806.8	349.2
82.5°	186.8	201.7	263.3	427.7	481.9	306.3	209.1	270.8	209.1	203.5	99.0
85°	0.0	9.3	169.9	265.2	196.1	67.3	87.8	89.6	61.7	57.9	39.2
87.5°	0.0	0.0	52.3	50.4	7.5	11.2	20.6	29.9	24.3	24.3	20.6
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°	3615.7	3615.7	3615.7	3615.7	3615.7	3615.7	3615.7	3615.7	3615.7	3615.7	3615.7
2.5°	3686.7	3585.9	3395.4	3208.6	3051.7	2922.8	2807.0	2760.4	2723.0	2717.4	2687.5
5°	3851.0	3647.5	3283.3	2984.5	2784.7	2642.7	2521.3	2446.6	2388.7	2366.3	2345.7
7.5°	4099.5	3791.3	3268.3	2924.7	2685.7	2446.6	2222.5	1979.7	1828.4	1770.5	1736.9
10°	4402.0	3981.8	3324.4	2907.9	2489.6	1985.3	1613.6	1305.5	1180.4	1139.3	1128.0
12.5°	4755.0	4219.0	3421.5	2803.3	2071.2	1410.1	1113.1	1008.5	980.5	967.4	967.4
15°	5160.3	4478.6	3490.6	2500.7	1531.5	1066.4	963.7	915.2	885.2	868.5	870.3
17.5°	5574.8	4732.5	3457.0	2061.9	1129.9	948.8	872.2	819.9	778.8	762.0	758.3
20°	5993.2	4967.9	3270.2	1535.2	956.2	860.9	775.0	717.2	676.1	659.3	655.5
22.5°	6426.6	5167.8	2941.5	1126.1	859.1	763.9	679.8	621.9	582.7	567.8	560.3
25°	6848.6	5330.2	2482.1	911.4	767.6	672.4	592.0	537.9	502.4	487.5	485.6
27.5°	7242.7	5433.0	1949.8	805.0	687.3	590.1	517.3	468.8	438.9	427.7	425.8
30°	7597.5	5442.3	1441.8	726.5	616.3	519.2	452.0	409.0	382.9	371.7	368.0
32.5°	7956.2	5363.9	1049.6	655.5	550.9	457.6	392.2	358.6	339.9	330.6	330.6
35°	8294.1	5182.7	818.0	593.9	487.5	397.8	345.5	321.2	310.0	300.7	300.7
37.5°	8624.7	4923.0	694.7	539.7	427.7	347.4	304.4	289.5	280.1	270.8	270.8
40°	8960.9	4596.3	631.2	489.3	379.1	308.2	270.8	257.8	248.4	240.9	239.0
42.5°	9373.7	4219.0	590.1	442.7	336.2	272.7	239.0	224.1	216.7	209.1	205.4
45°	9851.8	3894.1	556.6	395.9	300.7	242.8	207.3	192.4	181.2	171.8	169.9
47.5°	10540.9	3658.7	511.7	345.5	267.1	211.1	179.3	162.5	145.7	136.4	134.5
50°	11420.6	3464.4	453.8	300.7	233.4	179.3	149.4	128.8	113.9	104.6	104.6
52.5°	11857.6	3210.5	401.5	261.5	196.1	151.3	121.4	97.2	89.6	80.3	80.3
55°	12033.2	3016.3	349.2	222.3	162.5	125.1	95.2	74.7	69.1	63.5	61.7
57.5°	12526.2	2960.2	304.4	188.6	134.5	99.0	72.8	56.0	52.3	44.8	44.8
60°	13320.0	2988.2	263.3	160.6	108.3	76.6	54.1	42.9	39.2	31.8	31.8
62.5°	14177.2	2952.7	222.3	138.2	84.0	56.0	37.4	31.8	31.8	18.6	16.8
65°	14341.5	2629.7	190.5	113.9	65.4	41.1	24.3	20.6	28.0	3.7	0.0
67.5°	13310.6	2039.4	164.3	87.8	48.5	31.8	18.6	9.3	24.3	0.0	0.0
70°	10643.7	1296.2	132.6	63.5	37.4	26.2	14.9	3.7	18.6	0.0	0.0
72.5°	7526.5	752.7	104.6	44.8	31.8	20.6	11.2	0.0	11.2	0.0	0.0
75°	3806.2	401.5	65.4	33.6	24.3	14.9	7.5	0.0	1.9	0.0	0.0
77.5°	823.6	186.8	41.1	24.3	16.8	9.3	3.7	0.0	0.0	0.0	0.0
80°	179.3	82.2	26.2	14.9	9.3	5.6	0.0	0.0	0.0	0.0	0.0
82.5°	65.4	42.9	13.0	7.5	3.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	35.5	22.5	7.5	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.6	7.5	1.9	1.9	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)