

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: P383670

Luminaire Tested: **GLEON-SA9C-735-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383670
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9C-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 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: 50323.1 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

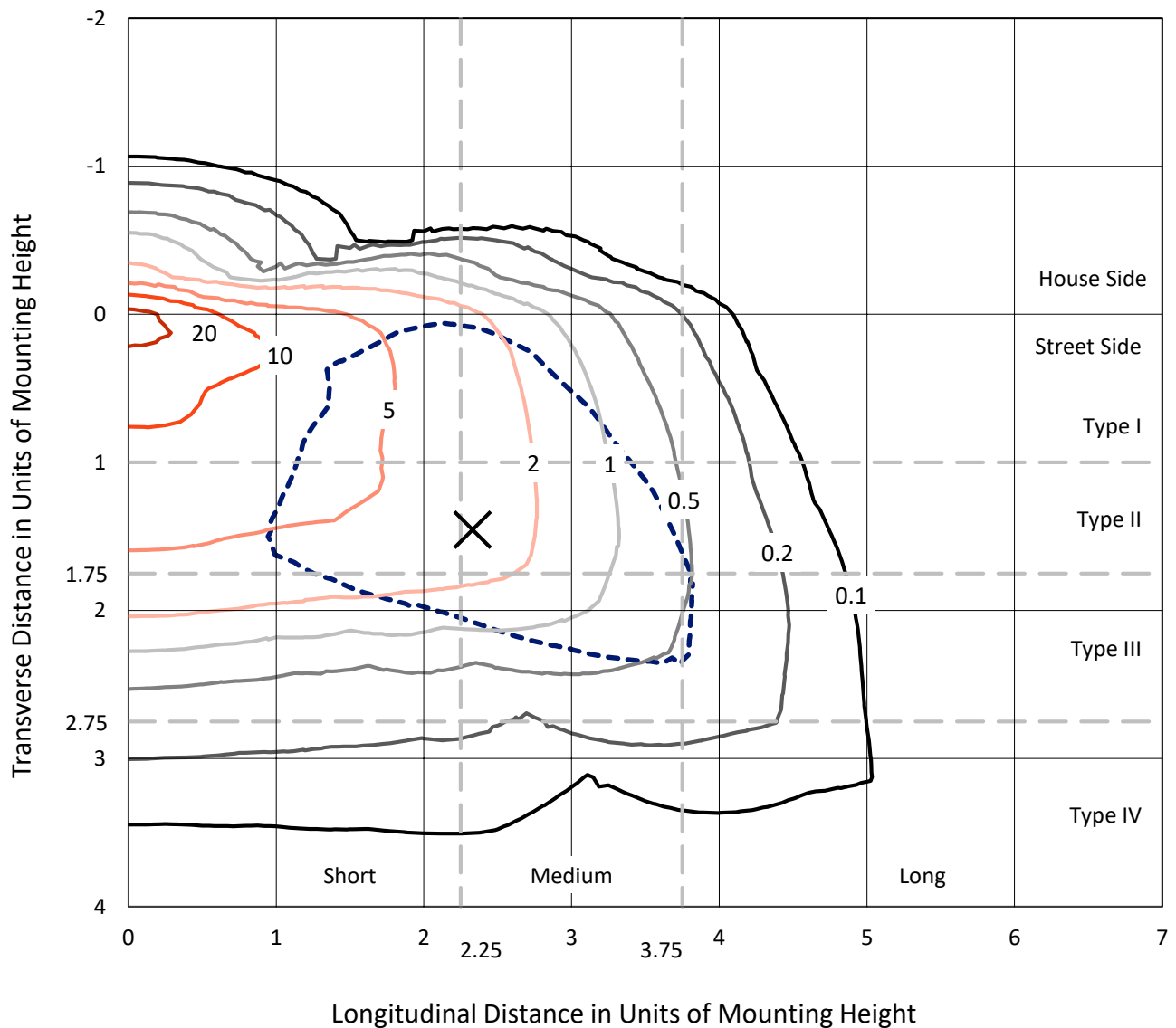
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

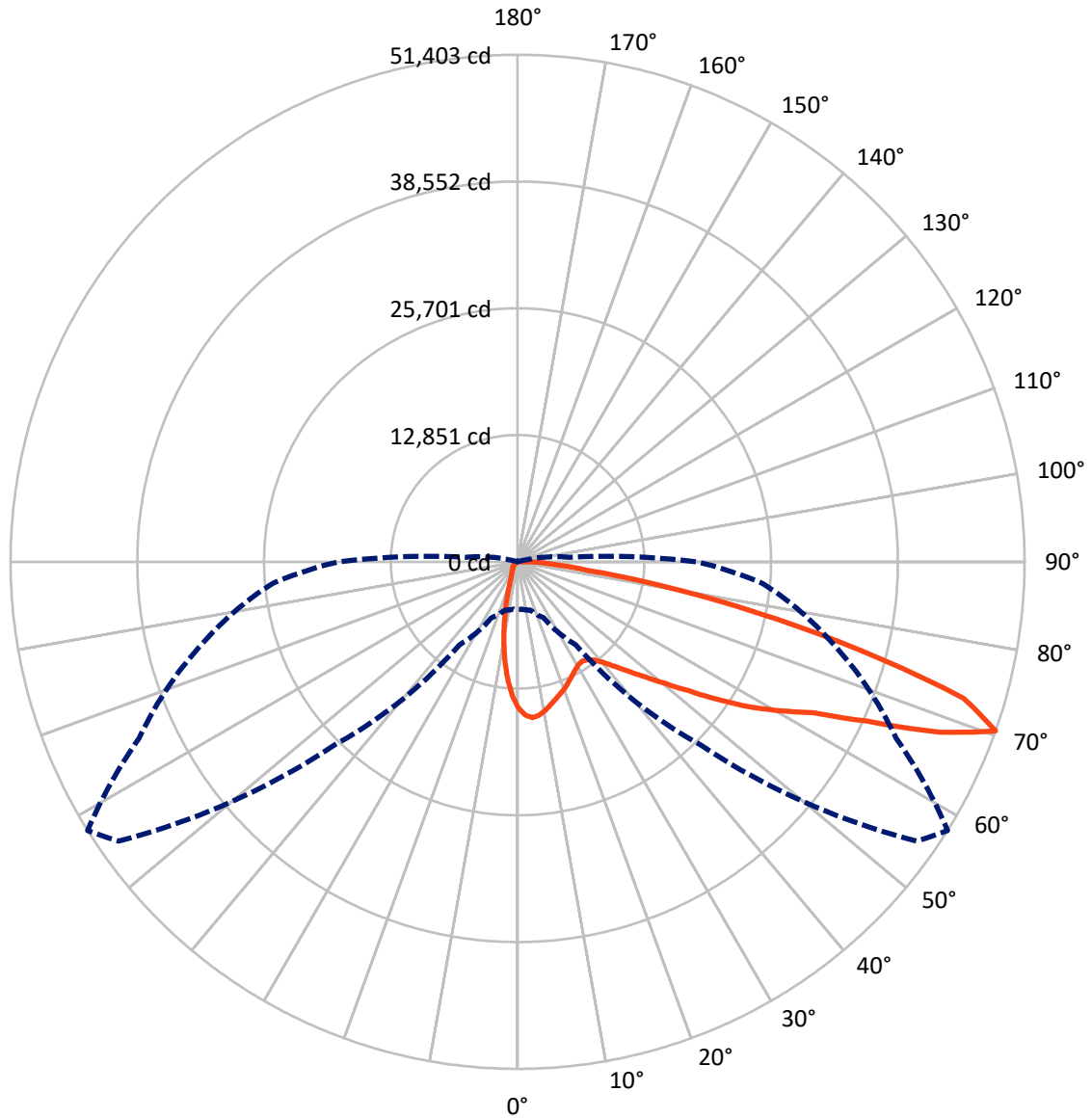
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4306.5	0.0	4306.5
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	46016.6	0.0	46016.6
	% Fixture	91.4	0.0	91.4
Total	Lumens	50323.1	0.0	50323.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1215.6	2.4
10°-20°	2551.2	5.1
20°-30°	3354.0	6.7
30°-40°	4442.0	8.8
40°-50°	6639.4	13.2
50°-60°	10636.1	21.1
60°-70°	13406.7	26.6
70°-80°	7231.5	14.4
80°-90°	846.5	1.7
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°	50323.1	100.0
0°-180°	50323.1	100.0

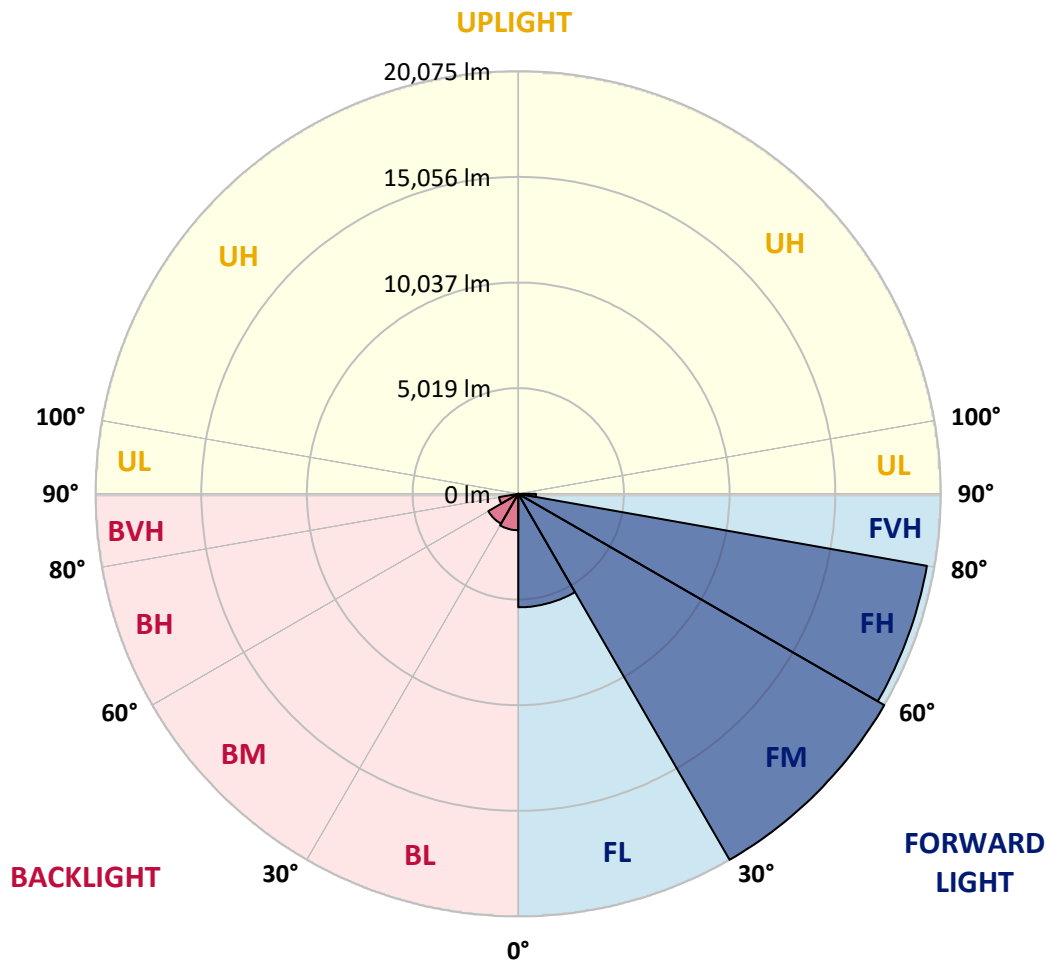


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5390.6	10.7			
FM (30°-60°)	20074.7	39.9			
FH (60°-80°)	19712.1	39.2			G5
FVH (80°-90°)	839.2	1.7			G5
BL (0°-30°)	1730.2	3.4	B3/2500		
BM (30°-60°)	1642.9	3.3	B2/2500		
BH (60°-80°)	926.1	1.8	B2/1000		G2/1000
BVH (80°-90°)	7.3	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	14865.2	14865.2	14865.2	14865.2	14865.2	14865.2	14865.2	14865.2	14865.2	14865.2	14865.2
2.5°	16097.7	16057.9	16043.3	16018.1	15921.9	15827.7	15641.5	15589.3	15472.1	15193.7	14898.7
5°	16110.3	16108.1	16152.1	16141.7	16108.1	16064.3	15930.3	15861.3	15662.5	15264.9	14725.0
7.5°	15333.9	15373.7	15472.1	15551.5	15643.7	15762.9	15779.7	15712.7	15549.5	15120.5	14404.9
10°	14291.9	14354.7	14492.7	14649.7	14890.3	15128.9	15342.3	15333.9	15277.5	14854.7	14019.9
12.5°	13247.7	13320.9	13480.0	13712.2	14053.3	14442.5	14823.3	14875.7	14969.9	14616.2	13664.1
15°	12333.3	12396.0	12553.0	12837.6	13260.3	13783.4	14342.1	14438.3	14681.1	14430.0	13367.0
17.5°	11557.0	11596.7	11711.8	12027.8	12517.4	13151.4	13877.5	14065.9	14427.9	14283.5	13109.6
20°	11015.0	11021.2	11096.6	11318.4	11808.0	12517.4	13396.3	13666.2	14160.1	14157.9	12843.8
22.5°	10747.2	10726.2	10740.8	10868.6	11228.4	11912.7	12915.0	13235.1	13919.4	14051.2	12573.9
25°	10697.0	10680.2	10638.4	10655.0	10872.7	11383.2	12429.5	12799.9	13708.1	13986.3	12339.6
27.5°	10853.8	10870.6	10799.4	10724.2	10740.8	11040.1	11998.4	12427.4	13536.5	13986.3	12174.2
30°	11169.8	11178.2	11125.9	11027.6	10895.8	10943.8	11699.2	12128.2	13450.7	14082.6	12069.6
32.5°	11519.3	11565.3	11559.0	11479.6	11291.2	11096.6	11628.1	12019.4	13444.4	14296.1	12059.2
35°	11952.4	12004.8	12092.6	12075.9	11879.2	11559.0	11870.8	12178.4	13567.9	14647.6	12172.2
37.5°	12412.8	12492.3	12680.6	12770.6	12643.0	12281.0	12414.9	12634.6	13898.5	15216.7	12458.8
40°	12858.5	12948.5	13291.6	13645.3	13549.0	13176.6	13239.3	13415.1	14486.5	16034.9	13002.9
42.5°	13295.8	13429.7	13934.1	14515.7	14630.9	14333.7	14367.2	14507.4	15359.1	17160.7	13892.2
45°	13818.9	13969.6	14716.7	15434.3	15741.9	15612.3	15754.5	15846.6	16499.5	18648.5	15091.2
47.5°	14586.9	14760.6	15677.1	16495.3	17035.1	17118.9	17405.5	17466.2	17941.2	20381.1	16654.3
50°	16085.1	16133.3	16961.9	17704.7	18483.2	18985.4	19311.8	19357.8	19686.4	22274.8	18606.6
52.5°	17970.5	18001.9	18470.6	18968.6	19853.8	20879.1	21642.8	21707.8	21776.8	24120.4	20533.8
55°	19843.3	19839.1	20148.8	20441.8	21454.6	22944.4	24601.7	24641.5	24145.5	25871.9	22007.0
57.5°	21013.0	21126.0	21596.8	21973.4	23388.0	25298.5	27598.1	27744.7	26633.5	27169.2	23463.4
60°	20640.6	20695.0	21739.2	23132.7	25796.5	28644.4	30630.2	30667.9	28504.2	28464.5	25304.7
62.5°	17585.5	17614.8	19255.3	22128.4	27016.5	32984.3	34287.9	33674.8	30655.3	30261.9	27508.1
65°	12052.9	12243.3	13613.9	17164.9	24775.3	35706.7	39950.3	38935.4	33934.3	32852.4	29500.2
67.5°	7097.8	7058.1	7736.0	10351.6	18196.5	33898.7	47112.9	46104.3	38406.0	34587.2	28916.4
70°	4848.3	4821.1	5080.7	6267.1	10272.2	26296.7	49366.6	51402.6	42354.6	33419.5	24886.3
72.5°	3461.0	3475.7	3858.6	4869.3	6449.1	15321.3	42453.0	47271.9	41117.9	29134.1	18916.3
75°	2349.9	2389.6	2937.9	3994.6	5653.9	7794.6	30125.9	35934.7	33482.3	21174.2	10872.7
77.5°	1263.9	1307.8	1954.4	3218.3	5112.1	5415.5	19378.8	24731.4	21031.8	9518.8	3151.3
80°	527.3	552.4	914.4	2339.4	4417.3	4756.3	11402.1	14997.1	8962.2	1877.0	703.0
82.5°	228.0	240.6	380.8	1395.7	3302.0	4015.5	6036.9	7215.0	2716.1	412.2	353.6
85°	44.0	46.0	157.0	738.6	2107.2	2266.2	3913.0	3835.6	1220.0	177.8	257.4
87.5°	0.0	0.0	37.6	232.2	619.4	1234.6	2387.6	2358.3	414.4	85.8	96.2
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°	14865.2	14865.2	14865.2	14865.2	14865.2	14865.2	14865.2	14865.2	14865.2	14865.2	14865.2
2.5°	14748.1	14603.7	14300.3	13925.7	13639.0	13323.0	13071.9	12753.9	12615.8	12622.0	12546.7
5°	14417.4	14120.3	13448.6	12601.1	11948.2	11274.4	10694.8	10117.3	9776.2	9665.4	9560.7
7.5°	13944.5	13473.7	12402.3	11096.6	9991.8	8912.0	7972.5	7145.9	6622.8	6367.5	6273.3
10°	13410.9	12749.7	11199.2	9479.1	7901.3	6440.7	5222.9	4164.1	3741.4	3454.7	3381.5
12.5°	12942.2	12046.6	10023.2	7819.7	5946.9	4185.1	3023.7	2364.5	2077.9	1964.9	1946.0
15°	12500.7	11389.6	8891.1	6317.3	4118.1	2575.9	1923.0	1699.1	1632.2	1613.3	1613.3
17.5°	12084.2	10763.8	7784.1	4837.9	2724.5	1805.8	1592.4	1542.2	1521.2	1519.2	1521.2
20°	11649.0	10138.2	6696.1	3544.7	1902.1	1529.6	1471.0	1443.8	1437.6	1437.6	1437.6
22.5°	11232.6	9512.6	5637.3	2531.9	1525.4	1395.7	1366.4	1347.6	1341.3	1339.2	1335.0
25°	10833.0	8918.3	4603.5	1789.1	1339.2	1278.5	1253.4	1228.3	1209.4	1199.0	1192.8
27.5°	10504.4	8388.9	3641.0	1435.4	1209.4	1157.2	1125.8	1088.1	1042.0	1021.2	1012.8
30°	10242.8	7905.5	2806.1	1211.6	1088.1	1035.8	987.6	922.8	855.8	820.2	818.2
32.5°	10037.8	7430.5	2130.2	1071.4	979.3	914.4	845.4	763.8	686.4	646.6	644.5
35°	9937.4	7012.0	1628.0	968.8	883.0	801.4	715.6	625.6	550.4	512.6	508.4
37.5°	10004.3	6658.4	1270.2	883.0	801.4	707.2	606.8	512.6	445.7	412.2	410.2
40°	10249.2	6432.4	1031.6	809.8	732.4	617.3	508.4	420.6	364.1	336.9	334.8
42.5°	10770.2	6348.7	881.0	749.2	665.4	533.6	422.6	347.4	295.0	276.2	272.0
45°	11640.6	6472.1	778.4	690.6	596.4	454.0	349.4	284.6	238.6	223.9	221.8
47.5°	12799.9	6796.5	705.2	634.0	533.6	383.0	290.8	230.2	194.6	180.0	177.8
50°	14293.9	7311.3	644.5	577.6	475.0	324.4	240.6	182.0	150.6	140.2	140.2
52.5°	15919.9	7924.3	590.0	525.2	416.4	270.0	194.6	140.2	119.2	106.8	106.8
55°	17263.3	8460.0	531.5	485.4	345.2	223.9	148.6	106.8	87.8	81.6	81.6
57.5°	18604.5	9031.3	464.6	416.4	276.2	182.0	113.0	79.6	64.8	60.6	60.6
60°	20343.4	9730.2	399.6	339.0	217.6	138.1	83.7	56.5	48.2	46.0	46.0
62.5°	22256.0	10140.4	341.0	272.0	169.4	102.6	60.6	37.6	35.6	35.6	33.4
65°	23425.7	9560.7	286.6	217.6	131.8	77.4	39.8	27.2	31.4	29.3	25.2
67.5°	21933.8	7484.9	234.4	169.4	102.6	58.6	25.2	18.8	33.4	27.2	21.0
70°	18160.9	5239.7	182.0	119.2	81.6	50.2	16.8	12.6	35.6	27.2	16.8
72.5°	13590.9	3507.1	144.4	79.6	60.6	44.0	14.6	6.2	31.4	23.0	14.6
75°	7426.3	1412.4	115.0	50.2	37.6	31.4	10.4	4.2	21.0	16.8	10.4
77.5°	1954.4	372.4	83.7	33.4	21.0	12.6	6.2	2.0	10.4	8.4	4.2
80°	498.0	144.4	54.4	23.0	14.6	6.2	0.0	0.0	2.0	0.0	0.0
82.5°	265.8	60.6	33.4	16.8	8.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	200.8	39.8	18.8	10.4	2.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	77.4	12.6	6.2	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)