

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: P383594

Luminaire Tested: **GLEON-SA8D-735-U-T2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383594  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA8D-735-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41209.8 lumens  
Efficiency: N/A  
Efficacy: 80.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G5

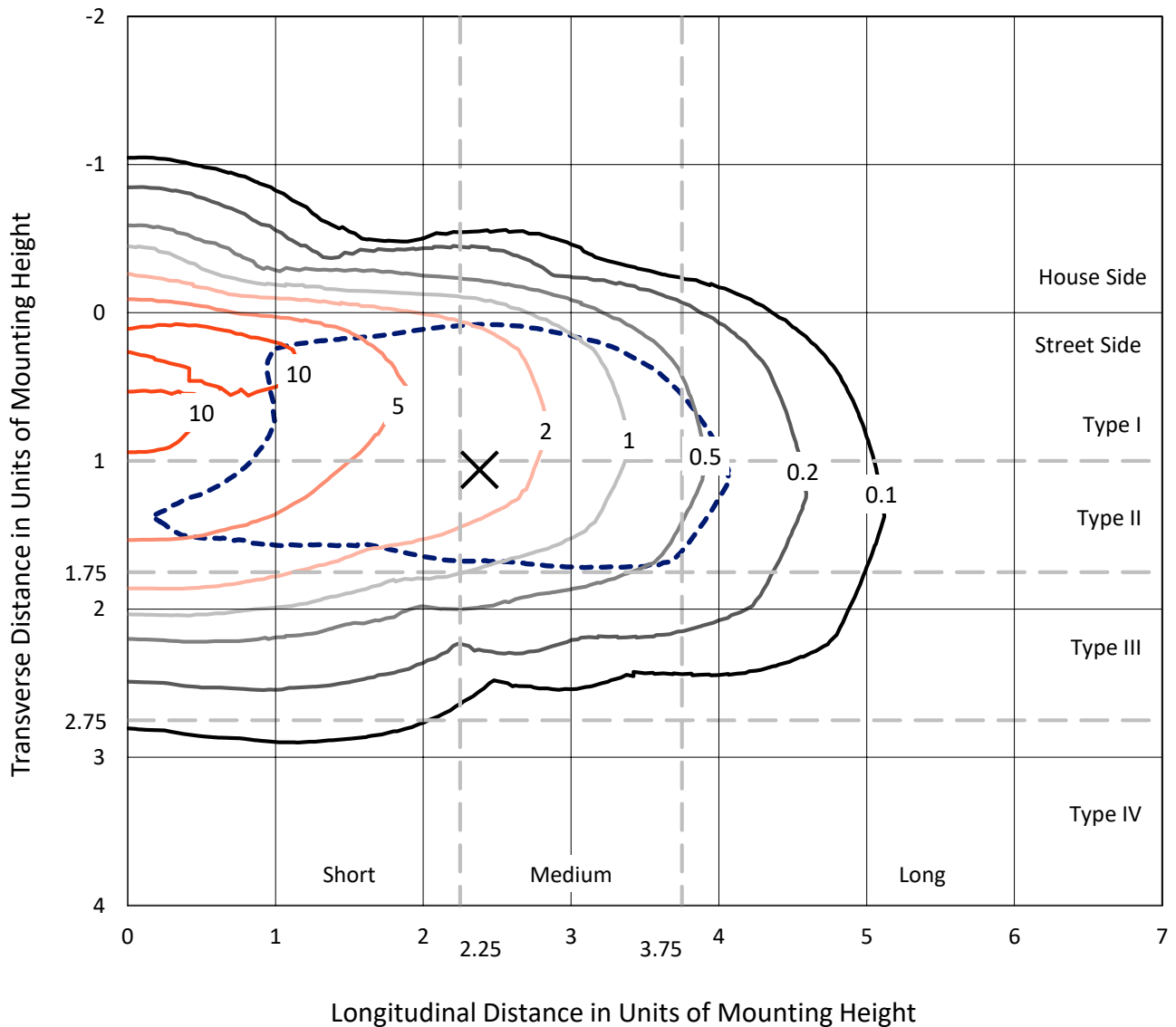
Input Watts (W): 511  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

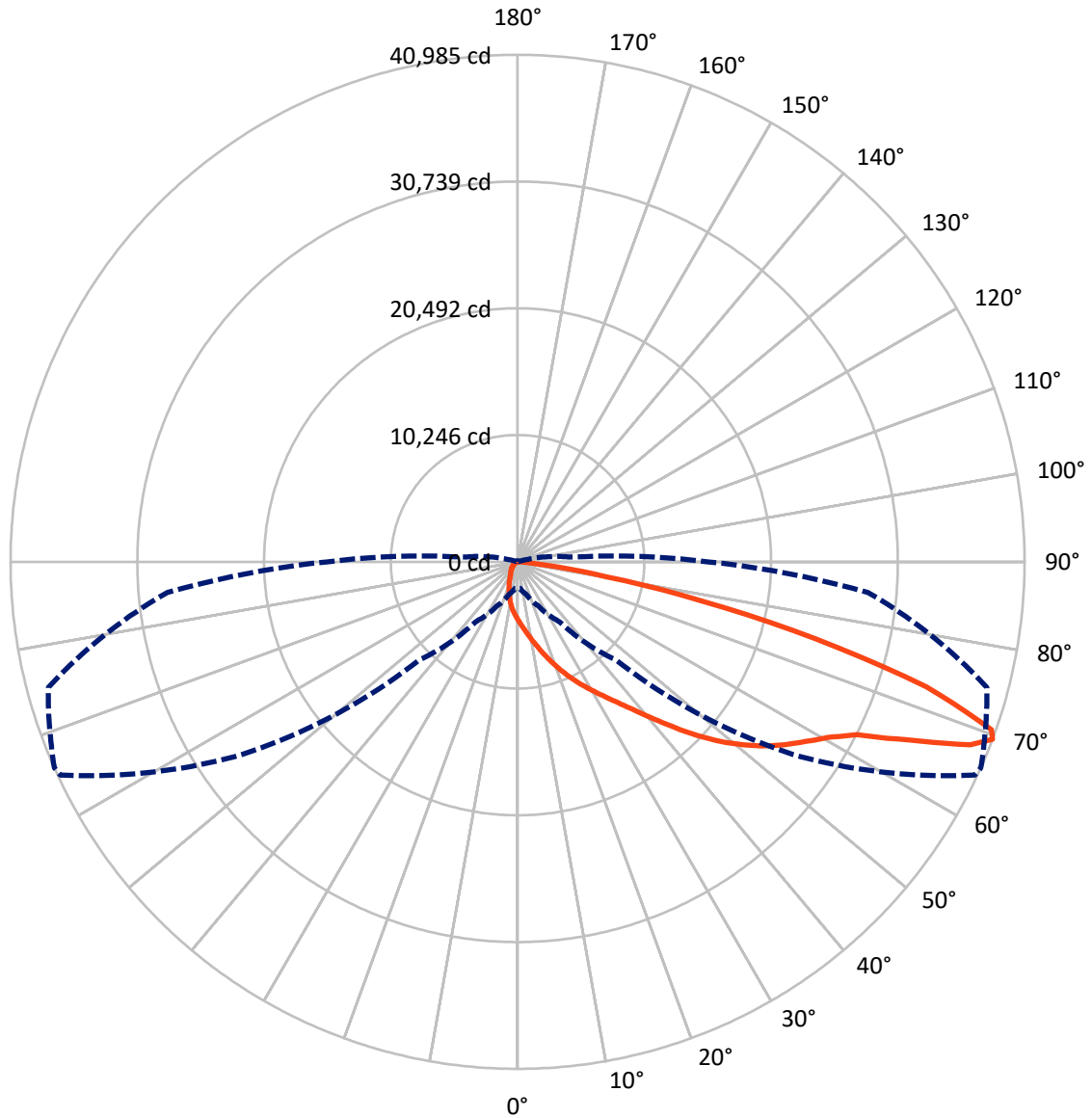
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2472.0	0.0	2472.0
	% Fixture	6.0	0.0	6.0
<b>Street Side</b>	Lumens	38737.8	0.0	38737.8
	% Fixture	94.0	0.0	94.0
<b>Total</b>	Lumens	41209.8	0.0	41209.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	453.3	1.1
10°-20°	1349.2	3.3
20°-30°	2349.5	5.7
30°-40°	4122.1	10.0
40°-50°	6899.8	16.7
50°-60°	10142.0	24.6
60°-70°	10413.3	25.3
70°-80°	5140.7	12.5
80°-90°	339.9	0.8
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°	41209.8	100.0
0°-180°	41209.8	100.0

**Coefficient of Utilization**

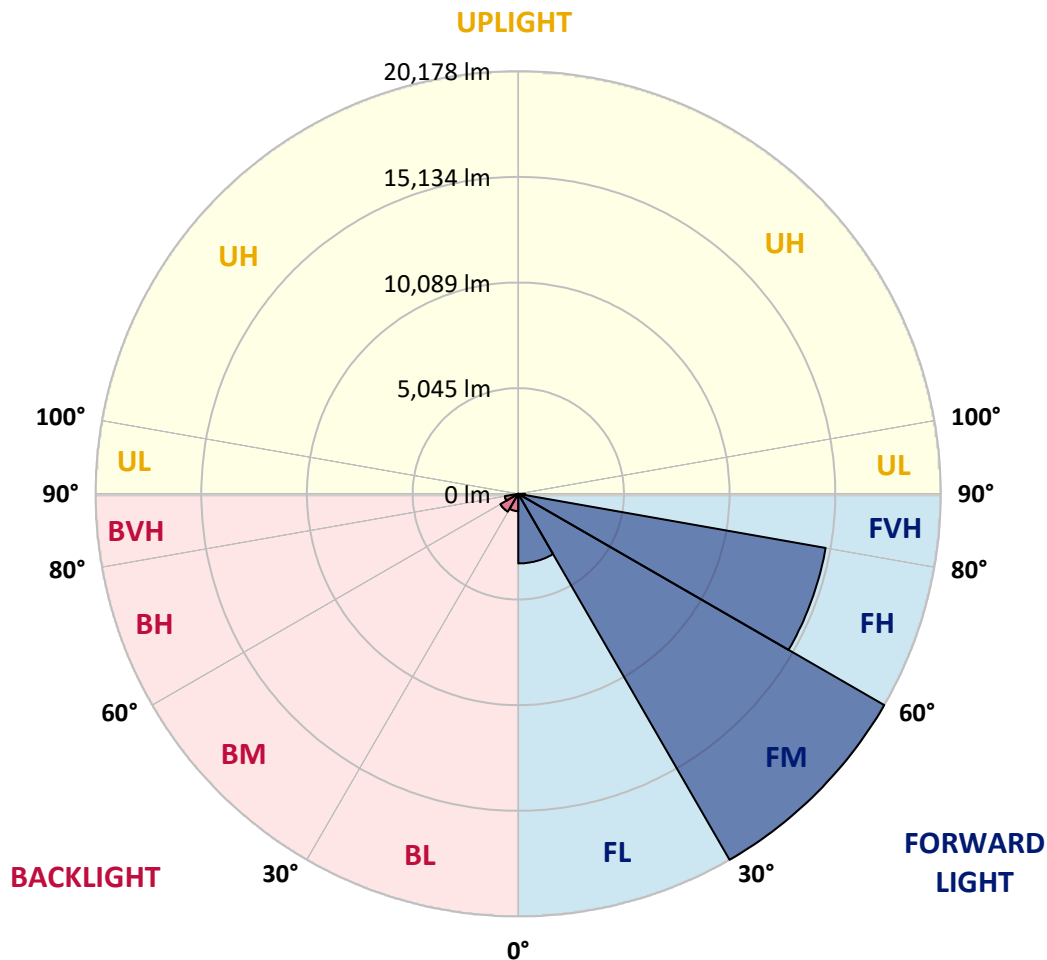


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3325.2	8.1			
FM (30°-60°)	20178.3	49.0			
FH (60°-80°)	14902.6	36.2			G5
FVH (80°-90°)	331.7	0.8			G3/500
BL (0°-30°)	826.7	2.0	B2/1000		
BM (30°-60°)	985.6	2.4	B1/1000		
BH (60°-80°)	651.4	1.6	B2/1000		G2/1000
BVH (80°-90°)	8.2	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-G5**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4689.8	4689.8	4689.8	4689.8	4689.8	4689.8	4689.8	4689.8	4689.8	4689.8	4689.8
2.5°	5519.7	5496.2	5486.4	5443.4	5369.0	5312.2	5202.6	5075.4	5051.9	4928.6	4777.9
5°	6236.2	6216.5	6202.8	6142.2	6065.9	5923.0	5723.2	5486.4	5441.4	5206.5	4905.2
7.5°	6735.3	6770.5	6770.5	6731.4	6635.4	6527.7	6283.1	5960.1	5903.4	5543.2	5075.4
10°	7026.8	7070.0	7103.2	7136.5	7122.8	7079.8	6848.7	6484.7	6416.2	5938.6	5273.1
12.5°	7054.3	7097.4	7191.3	7330.3	7465.3	7563.2	7418.4	7066.1	6987.7	6396.7	5508.0
15°	6901.6	6946.6	7091.5	7361.6	7688.4	7974.2	8021.2	7710.0	7629.7	6942.7	5801.6
17.5°	6635.4	6664.8	6872.2	7246.1	7759.0	8283.5	8567.4	8401.0	8326.5	7567.1	6128.5
20°	6437.7	6459.3	6641.3	7042.5	7715.9	8477.3	9084.1	9134.9	9056.7	8236.6	6482.7
22.5°	6776.4	6815.5	6821.4	7011.2	7598.4	8573.2	9538.1	9857.2	9798.5	8947.0	6831.1
25°	7702.1	7747.2	7598.4	7481.0	7698.2	8616.3	9927.7	10597.1	10550.1	9712.4	7181.5
27.5°	8925.5	8972.5	8780.7	8430.3	8220.9	8778.7	10274.1	11348.7	11346.7	10522.7	7559.3
30°	10127.3	10174.3	9978.6	9628.2	9146.7	9238.7	10573.6	12135.6	12147.3	11358.5	7960.5
32.5°	11387.9	11446.6	11245.0	10794.8	10291.7	10033.3	10994.4	12926.3	12992.9	12327.4	8412.7
35°	12820.6	12828.4	12544.7	12073.0	11493.5	11096.2	11669.7	13813.0	13971.5	13527.3	8986.2
37.5°	14226.0	14282.8	14049.9	13306.0	12773.7	12323.4	12673.8	14920.9	15145.9	14993.3	9735.9
40°	15267.3	15386.7	15353.5	14551.0	14046.0	13725.0	13920.7	16238.2	16524.0	16700.1	10681.2
42.5°	15921.1	16011.1	16163.7	15680.4	15222.3	15275.1	15392.6	17772.7	18125.0	18645.7	11767.6
45°	16670.7	16713.8	16841.0	16627.7	16318.4	16850.9	16954.5	19501.1	19871.0	20738.1	12973.3
47.5°	17586.8	17688.6	17723.8	17528.1	17387.1	18244.5	18459.7	21072.8	21591.5	22979.2	14249.5
50°	18753.4	18780.7	18841.5	18714.2	18573.3	19442.3	19810.3	22722.9	23194.6	25228.3	15508.0
52.5°	19894.5	19992.3	20203.8	20123.5	20066.7	20462.1	21014.1	24210.5	24737.0	27103.4	16764.7
55°	20223.3	20307.5	21037.6	21536.7	21998.7	21718.8	22165.1	25543.4	26113.0	28778.9	17974.3
57.5°	18910.0	19080.2	20344.7	21644.3	23560.6	23672.2	23746.5	26911.6	27422.4	30062.9	19232.9
60°	15590.3	15623.5	17698.4	19927.8	23302.2	25377.0	26056.2	28381.6	28810.3	31258.8	20740.1
62.5°	9916.0	10254.6	12531.0	15678.3	20569.8	25130.4	28849.4	30605.1	30761.7	32693.6	22901.0
65°	4723.0	4942.3	6582.6	9686.9	14899.4	21973.2	30777.3	34627.5	34697.9	35537.6	25788.0
67.5°	2615.0	2720.7	3501.7	5214.3	8710.2	15539.4	29998.3	39391.6	39458.2	38442.4	28320.9
69°	2045.4	2135.5	2750.1	3930.4	5905.4	11168.6	27146.5	40787.3	40984.9	39274.2	28410.9
70°	1736.1	1824.2	2368.4	3319.7	4748.6	8630.0	24163.5	40440.8	40650.2	39195.9	27739.5
72.5°	1062.8	1113.8	1577.7	2337.1	3182.6	4341.4	14901.3	34200.7	34555.0	35954.6	23840.5
75°	716.4	743.7	986.5	1612.9	2276.4	2235.2	7741.3	24106.7	24874.0	27968.6	17608.3
77.5°	512.8	538.2	661.6	1043.2	1595.3	1475.9	3505.6	14981.5	15145.9	16774.5	9602.8
80°	291.7	315.1	467.8	620.5	1082.5	984.6	1393.6	7156.1	7238.3	7193.2	3206.1
82.5°	152.7	172.2	256.5	409.0	694.8	644.0	579.3	2395.8	2407.6	2002.4	702.7
85°	29.3	35.2	127.2	279.9	358.2	279.9	236.8	561.7	573.5	506.9	174.2
87.5°	0.0	2.0	50.9	62.6	70.4	72.4	76.3	109.6	117.5	158.5	46.9
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°	4689.8	4689.8	4689.8	4689.8	4689.8	4689.8	4689.8	4689.8	4689.8	4689.8	4689.8
2.5°	4711.3	4640.9	4505.8	4349.2	4227.8	4108.5	4014.5	3916.7	3881.4	3863.8	3861.8
5°	4758.3	4609.6	4323.8	4030.2	3789.4	3562.3	3399.9	3245.3	3172.9	3139.6	3125.9
7.5°	4836.6	4597.8	4137.8	3689.6	3343.1	3059.3	2834.2	2665.9	2581.8	2546.5	2532.8
10°	4928.6	4582.2	3920.6	3329.4	2887.1	2593.5	2370.3	2203.9	2112.0	2072.8	2053.2
12.5°	5036.2	4554.7	3670.0	2965.4	2497.6	2203.9	1933.9	1728.3	1622.7	1577.7	1556.1
15°	5169.3	4527.3	3407.8	2622.9	2155.0	1796.9	1501.3	1362.3	1340.8	1333.0	1334.9
17.5°	5300.5	4484.3	3122.0	2284.2	1794.9	1403.4	1252.7	1244.9	1248.8	1248.8	1248.8
20°	5418.0	4386.4	2810.8	1994.5	1452.4	1184.2	1152.9	1139.2	1129.4	1121.6	1111.8
22.5°	5509.9	4255.3	2511.3	1706.8	1186.1	1084.4	1035.4	992.4	957.2	933.7	922.0
25°	5572.6	4081.1	2237.2	1430.9	1066.7	986.5	898.4	826.0	771.2	737.9	724.2
27.5°	5619.6	3893.1	1992.6	1197.9	984.6	873.0	757.5	671.4	614.6	585.3	573.5
30°	5652.8	3679.8	1777.3	1053.0	892.5	753.6	630.3	546.1	505.0	489.3	481.5
32.5°	5684.1	3443.0	1573.7	984.6	806.4	644.0	528.5	463.9	438.5	418.9	413.0
35°	5762.5	3223.7	1379.9	912.1	718.3	550.0	454.1	407.1	381.7	369.9	366.0
37.5°	5948.4	3061.3	1194.0	837.7	630.3	475.6	397.3	364.0	340.6	328.8	324.9
40°	6247.9	2979.1	1037.4	757.5	544.1	418.9	360.1	328.8	303.4	285.8	281.9
42.5°	6688.2	2990.8	927.8	677.2	475.6	373.8	324.9	287.8	260.4	244.6	240.7
45°	7222.7	3077.0	851.4	599.0	418.9	338.6	285.8	246.6	221.1	207.5	203.5
47.5°	7802.0	3215.9	788.8	528.5	373.8	305.4	246.6	205.5	184.0	172.2	170.3
50°	8412.7	3351.0	724.2	460.0	334.7	272.1	207.5	170.3	152.7	142.9	139.0
52.5°	9031.2	3507.6	665.5	397.3	301.4	232.9	172.2	139.0	125.3	117.5	113.6
55°	9696.7	3625.0	608.8	348.4	268.2	197.7	142.9	115.5	103.8	94.0	92.0
57.5°	10479.6	3807.0	550.0	301.4	229.0	164.4	117.5	92.0	82.2	72.4	70.4
60°	11536.7	4020.4	487.4	266.2	187.9	135.1	95.9	74.3	62.6	54.8	52.8
62.5°	12930.3	4257.3	409.0	232.9	152.7	109.6	76.3	58.7	45.0	35.2	35.2
65°	14697.8	4642.8	334.7	195.7	125.3	90.1	58.7	43.0	25.4	15.6	15.6
67.5°	15729.3	4709.3	270.1	160.5	101.8	76.3	48.9	29.3	7.8	2.0	0.0
69°	15398.5	4323.8	229.0	137.0	88.1	72.4	45.0	21.5	3.9	0.0	0.0
70°	14776.0	3953.9	201.6	121.4	80.2	68.5	43.0	15.6	3.9	0.0	0.0
72.5°	12210.0	2814.7	152.7	90.1	58.7	60.6	39.1	9.8	3.9	0.0	0.0
75°	8894.2	1710.7	109.6	62.6	37.2	45.0	27.4	3.9	2.0	0.0	0.0
77.5°	4948.2	806.4	68.5	35.2	23.5	27.4	13.7	0.0	0.0	0.0	0.0
80°	1607.0	219.2	31.3	19.6	13.7	15.6	5.9	0.0	0.0	0.0	0.0
82.5°	297.5	62.6	17.6	9.8	3.9	3.9	0.0	0.0	0.0	0.0	0.0
85°	64.6	25.4	9.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.5	7.8	2.0	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)