

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: P383548

Luminaire Tested: **GLEON-SA8B-735-U-T4W-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383548  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA8B-735-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30922.7 lumens  
Efficiency: N/A  
Efficacy: 92.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

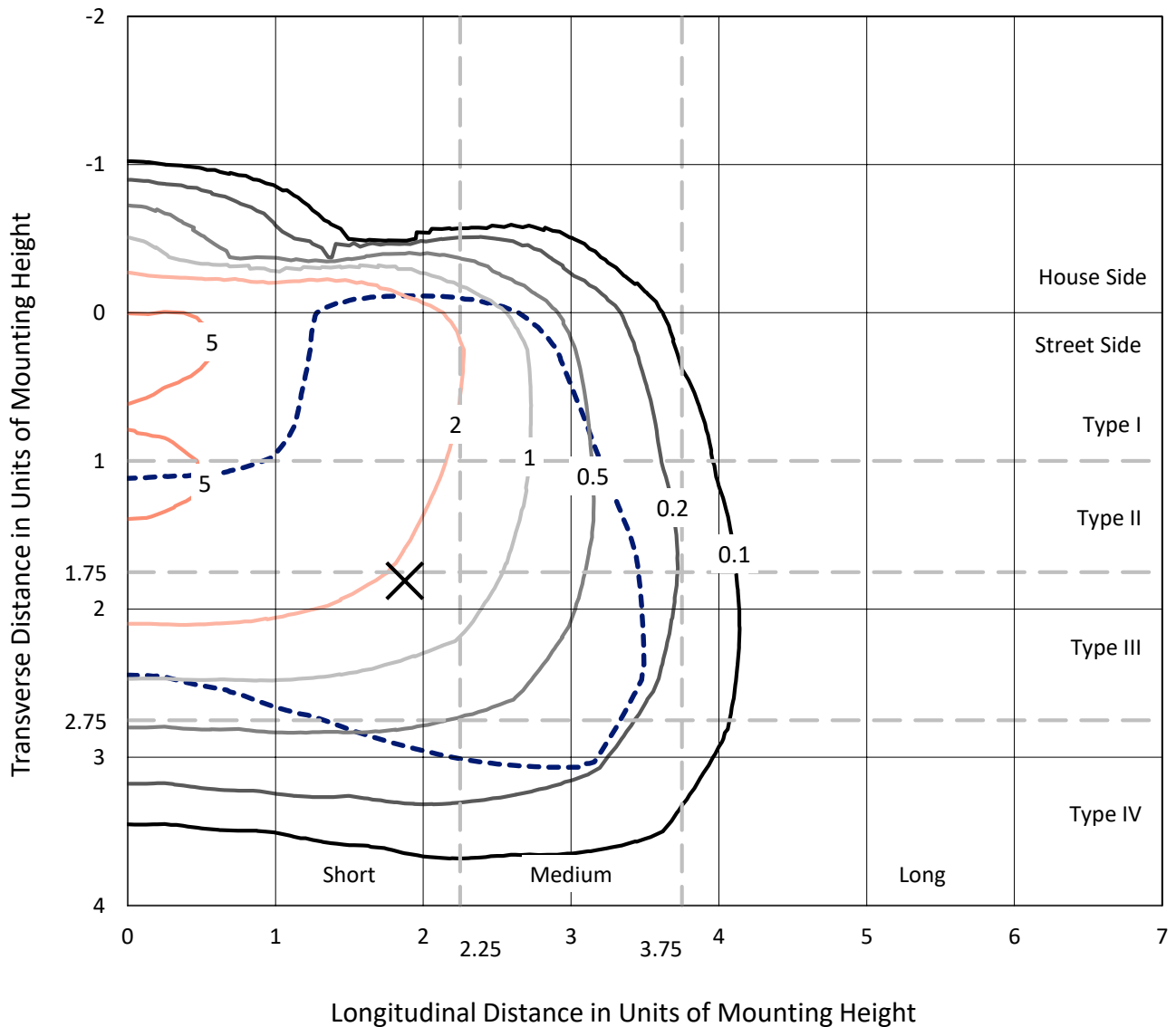
Input Watts (W): 334  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

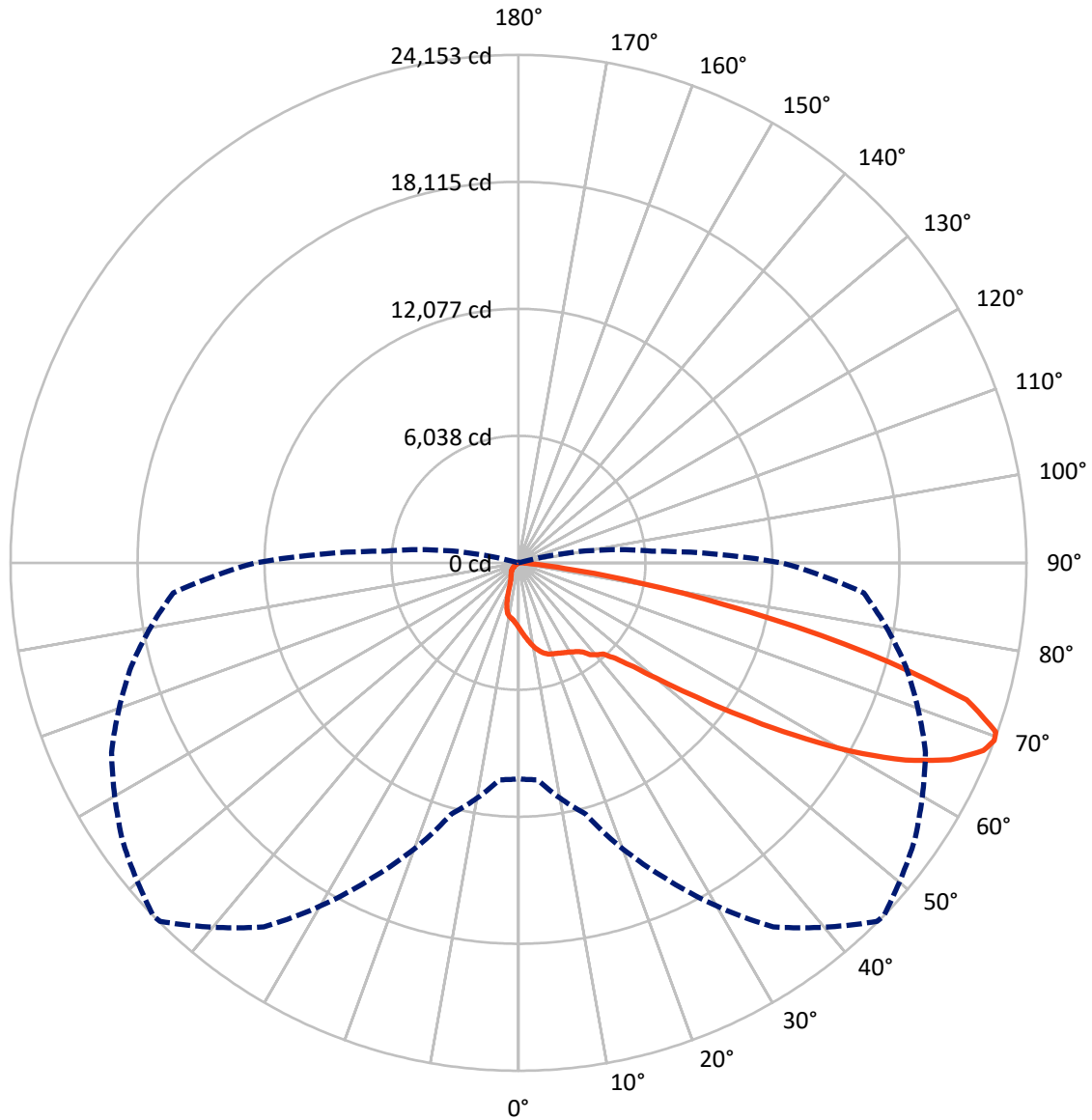
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3173.5	0.0	3173.5
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	27749.2	0.0	27749.2
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	30922.7	0.0	30922.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	308.4	1.0
10°-20°	935.6	3.0
20°-30°	1471.4	4.8
30°-40°	2110.0	6.8
40°-50°	3646.8	11.8
50°-60°	7204.6	23.3
60°-70°	10069.0	32.6
70°-80°	4864.4	15.7
80°-90°	312.7	1.0
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°	30922.7	100.0
0°-180°	30922.7	100.0

**Coefficient of Utilization**

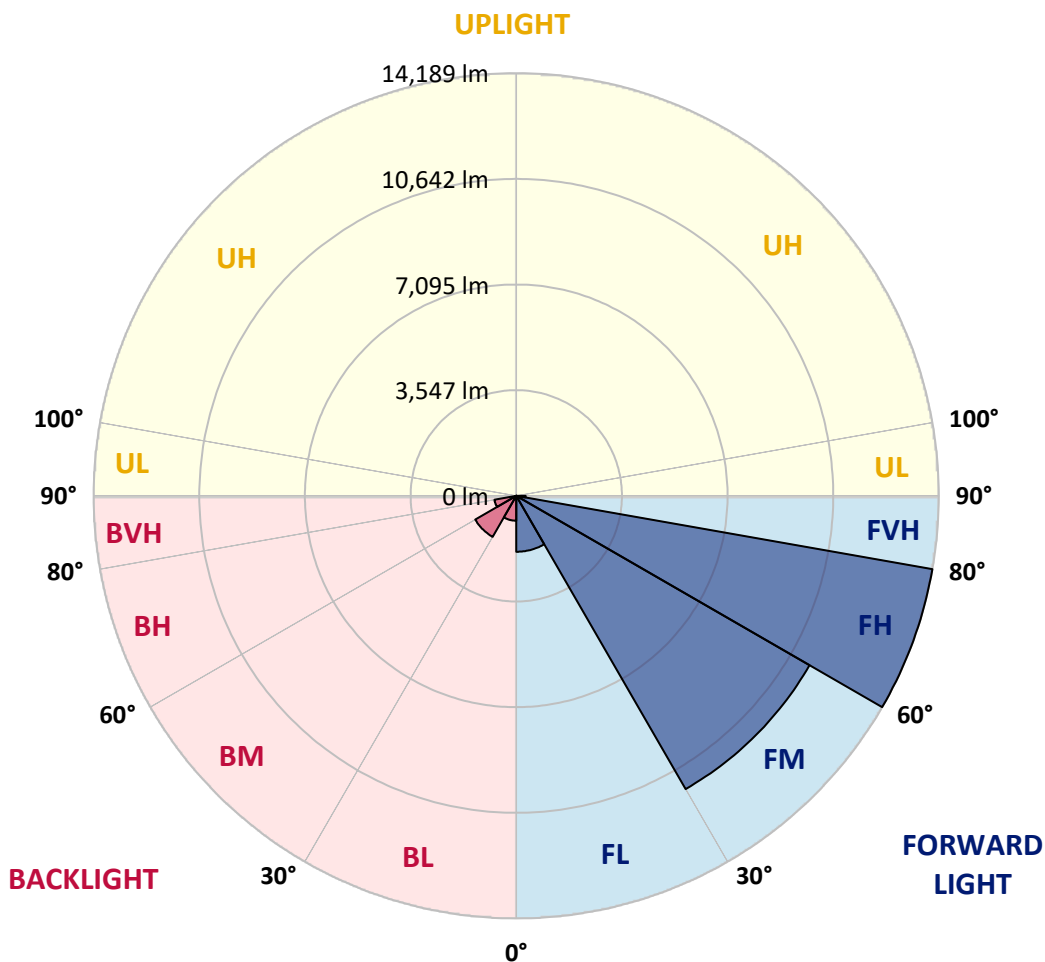


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1878.9	6.1			
FM (30°-60°)	11371.0	36.8			
FH (60°-80°)	14189.3	45.9			G5
FVH (80°-90°)	310.0	1.0			G3/500
BL (0°-30°)	836.4	2.7	B2/1000		
BM (30°-60°)	1590.3	5.1	B2/2500		
BH (60°-80°)	744.1	2.4	B2/1000		G2/1000
BVH (80°-90°)	2.6	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3098.3	3098.3	3098.3	3098.3	3098.3	3098.3	3098.3	3098.3	3098.3	3098.3	3098.3
2.5°	3442.0	3437.6	3417.3	3408.6	3359.3	3330.3	3318.7	3282.5	3230.2	3178.1	3120.1
5°	3833.4	3832.0	3794.3	3758.0	3665.3	3578.3	3562.3	3478.2	3360.7	3250.5	3140.4
7.5°	4233.6	4214.7	4177.1	4107.5	3972.6	3833.4	3820.4	3701.5	3534.8	3375.3	3217.2
10°	4572.9	4561.2	4512.0	4406.1	4248.0	4090.1	4074.1	3927.7	3739.1	3543.4	3341.9
12.5°	4836.7	4828.0	4762.8	4630.8	4462.7	4298.8	4277.1	4146.6	3945.0	3726.1	3488.4
15°	4997.7	4993.3	4913.5	4773.0	4607.6	4465.6	4446.7	4332.2	4145.1	3916.0	3647.8
17.5°	5035.4	5036.8	4954.2	4812.1	4675.8	4574.3	4559.8	4472.8	4316.2	4088.6	3807.3
20°	4951.3	4968.7	4894.7	4771.5	4687.4	4633.7	4622.2	4570.0	4438.0	4223.5	3935.0
22.5°	4832.4	4841.1	4790.3	4707.7	4672.9	4683.1	4677.2	4648.2	4536.6	4339.4	4061.1
25°	4759.8	4759.8	4729.5	4659.9	4683.1	4745.4	4746.8	4741.0	4652.6	4481.5	4214.7
27.5°	4756.9	4748.3	4713.4	4661.3	4725.1	4820.8	4826.5	4865.8	4810.6	4654.0	4406.1
30°	4872.9	4862.8	4788.9	4720.7	4801.9	4904.9	4919.3	5004.9	4977.4	4841.1	4619.3
32.5°	5144.1	5107.9	4944.0	4832.4	4893.2	5016.5	5035.4	5171.7	5215.2	5071.6	4825.1
35°	5515.2	5400.7	5164.4	5044.1	5049.8	5178.8	5196.3	5396.4	5525.4	5283.3	4984.6
37.5°	6027.0	5970.5	5586.3	5264.5	5290.5	5486.3	5537.0	5754.4	5718.2	5399.2	5165.8
40°	7149.3	7060.8	6651.9	5882.1	5521.1	5735.6	5751.6	5867.5	5870.4	5661.7	5542.8
42.5°	8677.4	8641.1	8210.6	7002.8	5974.9	5902.4	5931.3	6127.1	6346.0	6215.6	6209.7
45°	10369.3	10350.5	9893.8	8490.3	6892.6	6448.9	6485.2	6747.7	7166.7	7195.6	7379.7
47.5°	11730.8	11722.0	11459.6	10150.4	8297.5	7375.4	7387.0	7665.4	8401.9	8765.9	9060.1
50°	12971.9	13013.9	12806.5	11946.8	10211.3	8826.7	8799.2	8984.8	10167.8	10763.8	11129.1
52.5°	14697.2	14756.6	14175.3	13622.9	12219.4	10627.5	10605.7	10800.0	12290.5	12737.0	12802.3
55°	16220.9	16119.5	15659.9	15500.4	14668.1	12851.5	12845.8	13016.8	14343.4	14533.4	14653.7
57.5°	16893.7	16854.6	17076.4	17441.7	17233.0	15480.1	15467.0	15336.5	16180.4	16200.7	16570.4
60°	17318.5	17366.4	18046.3	19172.9	19693.4	18308.7	18224.7	17428.7	17934.7	17889.8	18285.5
62.5°	16999.5	17093.8	18317.5	20195.0	21534.7	20777.9	20659.0	19345.4	19433.9	19278.8	19647.0
65°	15306.2	15452.6	17457.7	20002.2	22448.2	22707.6	22587.3	21037.4	20624.2	20369.0	20164.6
67.5°	12428.1	12515.2	14608.7	18324.8	22036.3	23858.8	23834.2	22520.6	21523.1	20184.9	18598.7
69°	10270.8	10356.3	12371.6	16558.8	21130.2	24105.3	24153.2	22996.2	21352.0	19065.6	16479.1
70°	8699.2	8790.5	10668.1	15045.1	20079.0	23990.8	24076.3	22951.2	20862.0	17769.5	14618.9
72.5°	4562.7	4641.0	6567.9	10365.1	16368.9	22029.1	22288.7	21011.3	17683.8	12905.2	8644.0
75°	1433.9	1478.8	2564.8	5418.1	11207.4	17128.6	17188.1	16482.0	12557.2	7098.5	3600.0
77.5°	546.6	533.6	853.9	1996.5	5666.0	10785.5	11149.4	10299.7	6589.6	2509.7	830.8
80°	294.3	295.8	443.7	826.4	2424.2	5542.8	5850.2	4991.9	2341.5	783.0	191.3
82.5°	127.6	133.4	249.4	437.8	1113.5	2044.3	2198.0	1829.7	894.6	526.3	71.1
85°	27.6	30.5	120.4	237.7	453.8	574.1	601.7	593.0	569.8	408.9	27.6
87.5°	0.0	0.0	53.7	85.5	114.6	130.5	114.6	149.3	314.6	275.5	14.5
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°	3098.3	3098.3	3098.3	3098.3	3098.3	3098.3	3098.3	3098.3	3098.3	3098.3	3098.3
2.5°	3101.2	3075.1	3030.2	2980.9	2946.1	2909.9	2880.9	2867.8	2853.3	2843.2	2856.2
5°	3095.4	3044.7	2957.7	2873.6	2812.7	2763.4	2722.8	2706.9	2691.0	2679.3	2677.9
7.5°	3146.2	3075.1	2941.7	2818.5	2724.3	2657.6	2602.5	2579.3	2560.5	2551.8	2544.5
10°	3243.4	3152.0	2973.7	2812.7	2691.0	2577.9	2458.9	2367.6	2308.2	2280.6	2270.5
12.5°	3369.5	3254.9	3034.5	2843.2	2666.3	2448.9	2196.5	1979.1	1838.4	1792.0	1764.4
15°	3517.3	3375.3	3114.3	2882.3	2576.4	2179.2	1751.4	1467.3	1336.8	1310.7	1281.7
17.5°	3659.4	3502.8	3210.0	2889.6	2379.2	1741.2	1283.1	1090.3	1039.5	1056.9	1061.3
20°	3784.1	3629.0	3304.2	2825.8	2021.1	1306.3	993.1	945.3	964.2	997.5	1003.3
22.5°	3910.3	3750.8	3391.2	2657.6	1563.0	991.7	894.6	906.1	925.0	958.4	964.2
25°	4064.0	3898.6	3472.4	2348.8	1172.9	843.8	849.6	867.0	885.9	916.3	919.3
27.5°	4240.9	4085.7	3526.1	1947.1	869.9	775.7	794.5	820.6	839.5	868.5	874.3
30°	4475.7	4332.2	3543.4	1531.1	729.3	714.8	723.4	755.4	783.0	809.0	813.3
32.5°	4696.1	4575.8	3485.5	1155.5	675.7	658.2	658.2	677.0	709.0	733.6	739.5
35°	4899.1	4820.8	3299.9	845.3	635.0	606.1	591.5	591.5	611.8	632.1	637.9
37.5°	5167.3	5164.4	2999.8	674.2	595.9	562.6	532.1	508.9	501.6	506.0	508.9
40°	5626.9	5631.2	2608.3	604.6	562.6	517.6	471.2	429.2	390.0	377.0	375.5
42.5°	6344.6	6279.3	2198.0	571.2	533.6	471.2	401.6	345.0	284.2	265.3	263.9
45°	7484.1	7097.1	1763.0	540.8	503.1	419.0	332.0	255.2	205.9	191.3	191.3
47.5°	9144.3	8171.3	1365.7	507.4	462.5	359.6	250.9	184.2	150.8	143.6	144.9
50°	10860.9	9224.0	1046.8	465.4	413.2	297.3	185.6	133.4	114.6	114.6	116.0
52.5°	12383.2	9995.3	816.3	420.5	352.3	233.4	140.7	104.4	95.7	94.3	95.7
55°	13808.4	10492.6	624.9	368.2	279.8	174.0	107.3	85.5	79.7	76.9	75.4
57.5°	15182.9	10739.1	468.3	297.3	203.0	126.1	85.5	72.5	66.7	62.3	60.9
60°	16097.7	10539.0	321.8	218.9	140.7	91.4	71.1	62.3	55.1	50.8	49.3
62.5°	16613.9	9992.4	207.4	158.0	100.0	68.2	56.5	52.2	42.0	37.7	37.7
65°	16405.1	9090.6	144.9	113.1	72.5	50.8	42.0	42.0	30.5	24.7	23.2
67.5°	14537.7	7679.9	110.2	84.1	52.2	37.7	31.9	36.2	18.8	11.6	11.6
69°	12507.9	6364.9	94.3	69.6	43.5	30.5	27.6	33.3	13.0	8.7	7.3
70°	10871.0	5490.6	85.5	60.9	36.2	26.1	24.7	31.9	13.0	7.3	5.8
72.5°	6504.1	3062.1	65.2	43.5	23.2	20.3	20.3	36.2	13.0	7.3	5.8
75°	2628.5	1078.7	47.9	30.5	17.4	17.4	24.7	46.4	11.6	5.8	4.4
77.5°	595.9	236.3	27.6	18.8	11.6	17.4	29.0	36.2	7.3	2.9	0.0
80°	144.9	58.0	17.4	11.6	7.3	13.0	21.7	20.3	1.5	0.0	0.0
82.5°	47.9	20.3	7.3	5.8	1.5	4.4	10.2	5.8	0.0	0.0	0.0
85°	20.3	11.6	2.9	1.5	0.0	0.0	1.5	0.0	0.0	0.0	0.0
87.5°	13.0	4.4	0.0	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)