

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: P383262

Luminaire Tested: **GLEON-SA5D-735-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383262
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5D-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26325.5 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

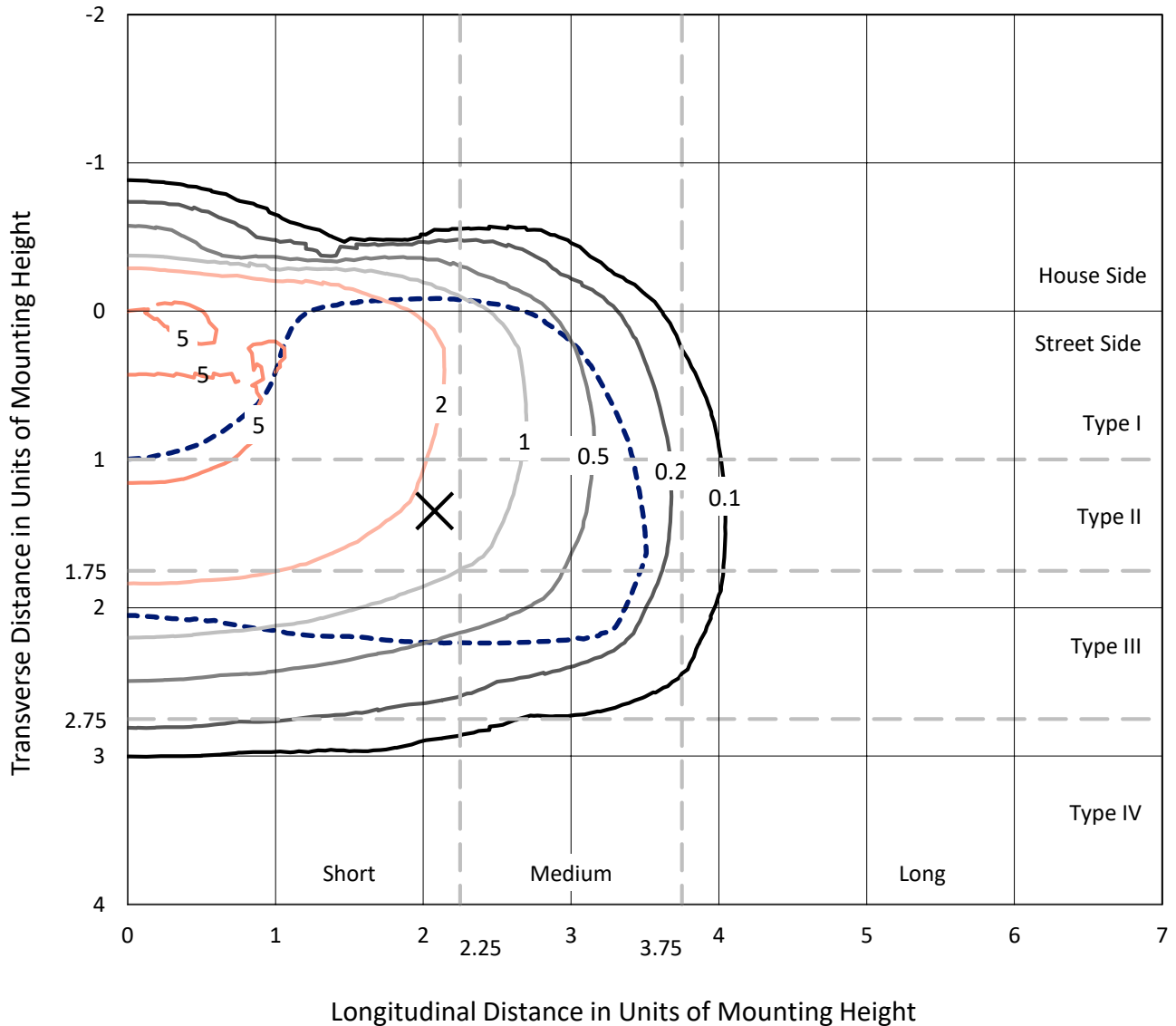
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

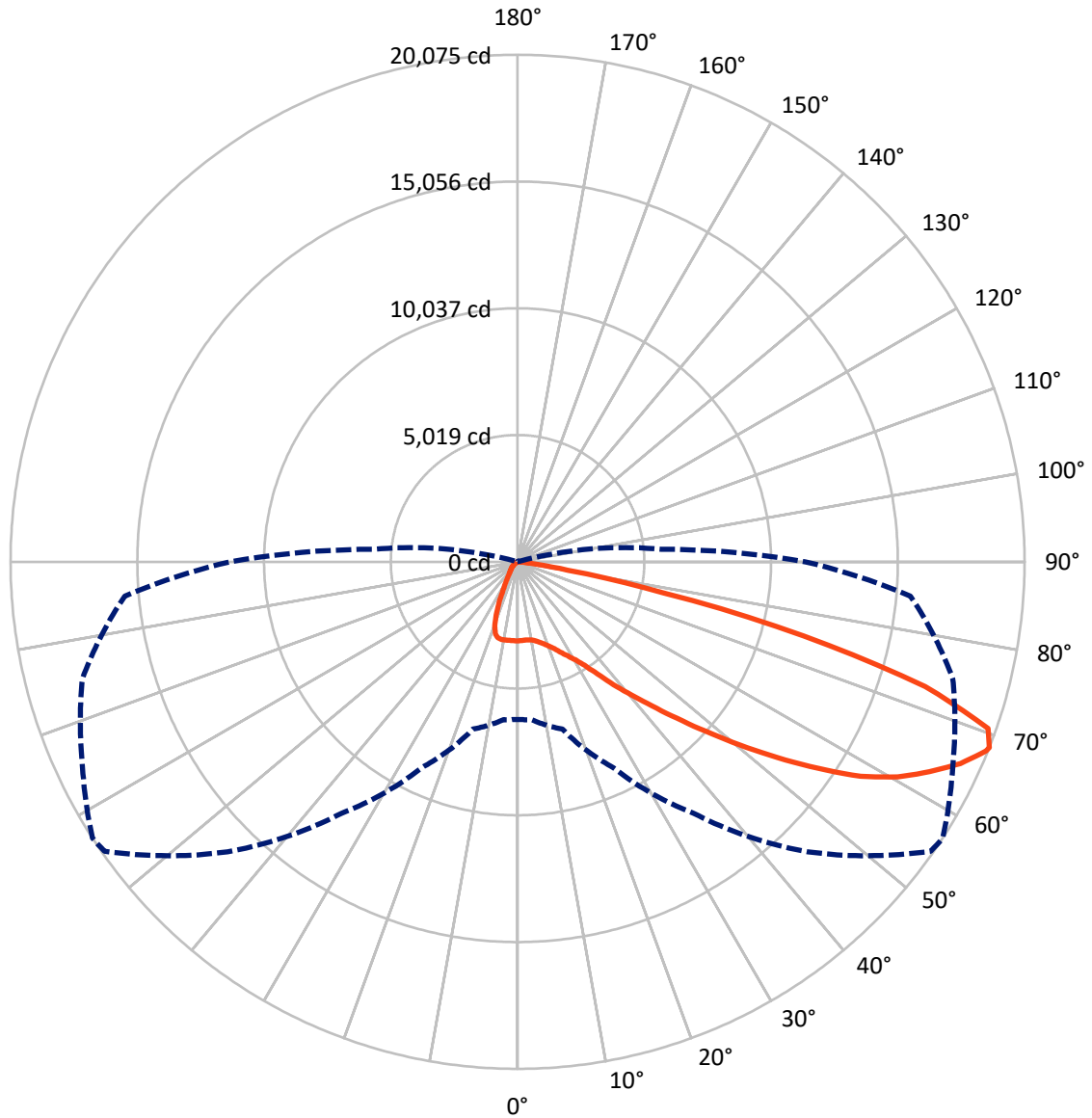
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2886.7	0.0	2886.7
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	23438.8	0.0	23438.8
	% Fixture	89.0	0.0	89.0
Total	Lumens	26325.5	0.0	26325.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.7	1.1
10°-20°	811.2	3.1
20°-30°	1399.5	5.3
30°-40°	2415.4	9.2
40°-50°	4131.6	15.7
50°-60°	6610.1	25.1
60°-70°	7637.3	29.0
70°-80°	2918.3	11.1
80°-90°	109.4	0.4
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°	26325.5	100.0
0°-180°	26325.5	100.0

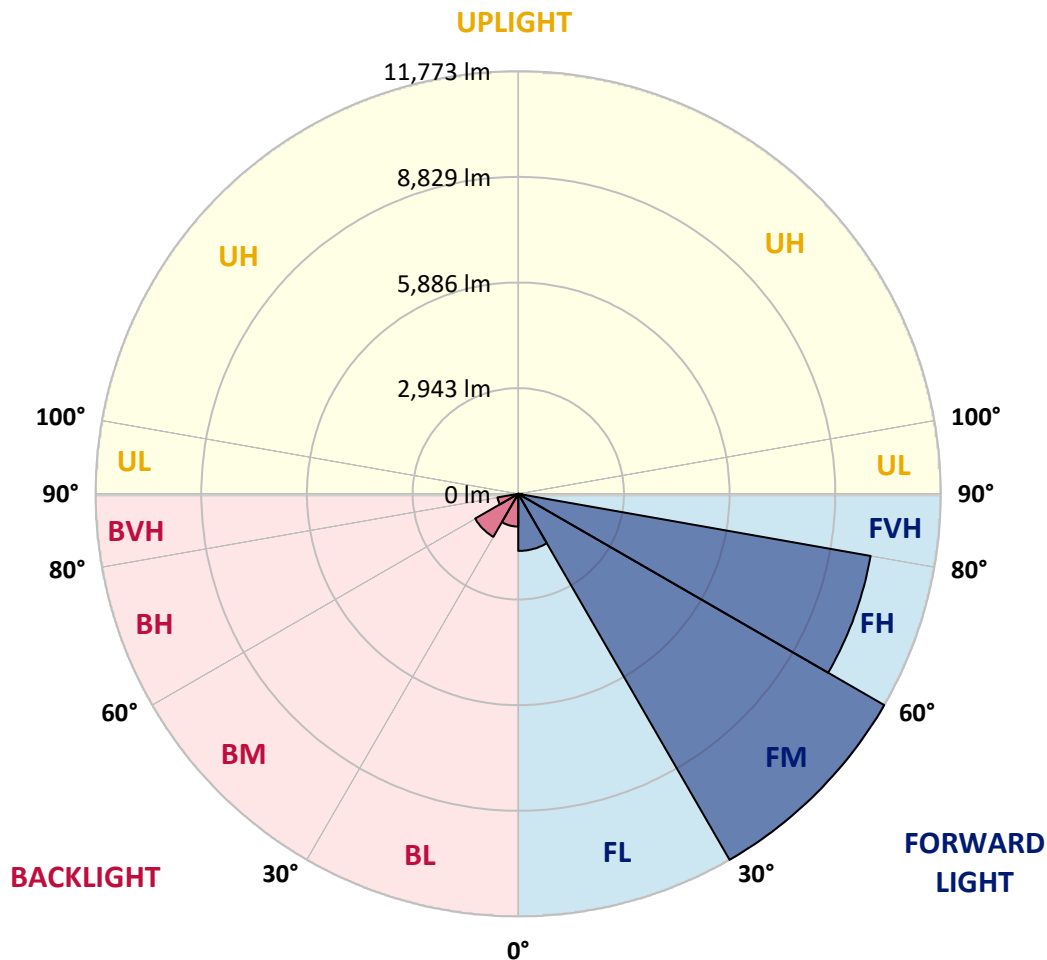


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1591.1	6.0			
FM (30°-60°)	11772.6	44.7			
FH (60°-80°)	9967.7	37.9			G4/12000
FVH (80°-90°)	107.4	0.4			G2/225
BL (0°-30°)	912.3	3.5	B2/1000		
BM (30°-60°)	1384.5	5.3	B2/2500		
BH (60°-80°)	587.9	2.2	B2/1000		G2/1000
BVH (80°-90°)	2.0	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3128.1	3128.1	3128.1	3128.1	3128.1	3128.1	3128.1	3128.1	3128.1	3128.1	3128.1
2.5°	3054.7	3068.4	3078.4	3084.6	3092.1	3108.3	3113.2	3120.7	3124.4	3124.4	3133.2
5°	2934.0	2948.9	2970.1	2987.5	3022.4	3067.2	3099.5	3112.0	3134.4	3154.3	3165.5
7.5°	2821.9	2839.4	2864.2	2905.3	2965.1	3037.3	3104.5	3122.0	3165.5	3207.9	3229.0
10°	2749.7	2763.4	2795.9	2854.4	2932.7	3033.6	3128.1	3149.3	3224.0	3295.0	3334.8
12.5°	2724.9	2737.3	2770.9	2836.8	2934.0	3052.2	3182.9	3214.0	3323.6	3426.9	3483.0
15°	2760.9	2763.4	2799.6	2861.8	2957.7	3098.3	3273.8	3311.2	3449.3	3583.8	3653.4
17.5°	2900.4	2889.2	2907.8	2935.2	3011.1	3159.3	3369.7	3425.7	3609.9	3768.0	3834.0
20°	3249.0	3249.0	3206.6	3131.9	3133.2	3253.9	3499.1	3562.6	3788.0	3970.9	4030.6
22.5°	3845.1	3834.0	3749.3	3566.3	3398.3	3416.9	3657.2	3739.3	4002.0	4197.5	4217.4
25°	4562.2	4548.5	4417.8	4160.1	3868.8	3680.8	3871.3	3965.9	4257.2	4430.3	4389.2
27.5°	5321.5	5310.3	5180.8	4860.9	4446.4	4101.6	4126.5	4216.1	4517.4	4687.9	4557.2
30°	6057.2	6060.9	5932.7	5604.1	5134.8	4638.1	4450.1	4502.4	4770.1	4943.1	4756.4
32.5°	6756.7	6761.7	6651.0	6283.8	5845.6	5261.8	4898.3	4884.6	5063.8	5234.4	5020.3
35°	7380.4	7392.9	7316.9	7031.9	6567.5	5956.3	5479.5	5447.2	5480.9	5673.8	5424.8
37.5°	7981.6	7989.0	7931.8	7691.6	7303.2	6719.4	6214.0	6168.0	6095.8	6243.9	5958.8
40°	8640.1	8621.5	8555.4	8337.6	8004.0	7562.1	7003.2	6923.5	6797.8	6929.8	6660.9
42.5°	9252.6	9231.4	9242.6	8996.1	8714.8	8428.5	7923.1	7786.2	7712.7	7864.6	7522.2
45°	10018.1	10006.9	10044.2	9830.2	9602.3	9394.5	8977.4	8828.1	8795.7	8973.7	8564.2
47.5°	10773.7	10801.1	10916.8	10826.0	10733.9	10550.9	10094.1	10026.8	10046.7	10262.1	9663.3
50°	11403.5	11436.0	11753.3	11857.9	11991.1	11884.0	11426.0	11384.9	11463.3	11657.5	10845.9
52.5°	11859.2	11925.1	12319.7	12801.4	13286.9	13359.1	12902.3	12865.0	12970.8	13000.6	11759.6
55°	12175.3	12233.8	12680.7	13562.0	14550.4	14861.6	14577.8	14433.4	14413.5	14118.4	12720.6
57.5°	12231.3	12225.2	12867.5	14053.7	15541.3	16344.2	16164.9	16023.0	15614.7	15151.6	13822.2
60°	11915.1	11951.3	12696.9	14224.3	16163.7	17465.7	17479.4	17295.2	16659.1	16156.2	14890.2
62.5°	10941.8	11088.6	11841.7	13777.4	16156.2	17917.6	18442.9	18302.2	17541.6	16978.9	15973.2
65°	9363.4	9415.6	10133.8	12246.3	15064.5	17728.4	19310.5	19258.3	18337.0	17778.1	16529.7
67.5°	6837.7	6724.4	7478.7	9643.4	12754.2	16625.5	19932.9	19998.8	18950.8	17942.4	15937.1
68°	6240.2	6273.8	6861.3	8999.9	12149.2	16235.8	19974.0	20074.8	19011.8	17835.4	15613.5
70°	3719.5	3784.1	4308.2	6196.6	9242.6	14031.3	19530.8	19761.1	18648.3	16731.2	13504.7
72.5°	949.8	1026.9	1522.4	2773.4	5279.2	9886.1	16487.3	16876.9	16191.0	13573.2	9116.9
75°	390.9	410.8	543.9	913.7	1966.8	4453.9	10867.1	11701.1	11224.3	8126.0	4120.2
77.5°	270.1	283.8	349.8	506.7	851.4	1509.9	5327.7	5930.2	5342.6	2773.4	898.8
80°	194.2	205.4	250.2	337.3	489.2	539.0	1736.5	2007.9	1594.6	608.7	222.8
82.5°	115.8	124.5	186.7	240.2	297.5	257.7	432.0	490.5	461.9	302.5	99.6
85°	57.3	67.3	125.8	171.8	160.6	108.3	131.9	146.9	181.7	184.3	53.6
87.5°	3.7	7.5	73.4	103.3	44.8	24.9	38.6	47.3	64.7	90.8	22.5
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°	3128.1	3128.1	3128.1	3128.1	3128.1	3128.1	3128.1	3128.1	3128.1	3128.1	3128.1
2.5°	3136.9	3138.1	3129.4	3125.7	3128.1	3113.2	3107.0	3109.5	3109.5	3113.2	3107.0
5°	3168.0	3168.0	3153.1	3133.2	3122.0	3093.3	3074.7	3069.6	3065.9	3063.4	3058.5
7.5°	3235.3	3227.7	3201.6	3158.0	3120.7	3058.5	3011.1	2986.3	2973.8	2968.8	2965.1
10°	3343.5	3329.8	3286.2	3205.4	3119.5	3008.7	2905.3	2831.9	2770.9	2746.0	2731.1
12.5°	3489.1	3469.3	3395.8	3261.3	3110.7	2906.6	2682.6	2467.2	2266.7	2184.6	2143.5
15°	3657.2	3628.6	3512.8	3308.7	3059.7	2676.3	2189.6	1812.4	1534.8	1430.3	1385.5
17.5°	3827.7	3790.4	3614.9	3338.6	2906.6	2199.6	1536.1	1160.1	974.7	924.8	907.4
20°	3999.5	3944.7	3703.3	3316.1	2560.5	1585.9	1013.2	847.7	794.1	779.2	774.3
22.5°	4162.6	4077.9	3782.9	3229.0	2027.8	1064.3	801.7	749.3	731.9	723.3	720.7
25°	4304.5	4186.3	3852.6	2960.1	1435.2	804.1	721.9	704.5	682.2	666.0	667.2
27.5°	4437.7	4294.5	3895.0	2516.9	957.3	687.1	668.5	644.8	603.7	580.1	580.1
30°	4598.3	4438.9	3926.1	1936.9	704.5	607.5	592.6	556.4	500.4	469.3	469.3
32.5°	4839.8	4658.0	3906.2	1359.3	583.8	534.1	499.1	449.4	388.4	358.5	357.2
35°	5209.5	4996.6	3764.3	891.3	515.3	464.3	408.3	347.3	293.8	268.8	267.6
37.5°	5707.4	5449.7	3445.6	637.4	461.9	399.5	332.4	265.1	225.3	209.1	207.9
40°	6353.4	5976.3	2990.0	516.5	412.0	337.3	256.5	205.4	178.0	165.5	166.8
42.5°	7128.9	6540.1	2443.5	445.7	363.5	277.6	200.4	161.8	144.4	135.7	133.2
45°	7990.3	7096.5	1870.9	397.1	315.0	224.0	156.9	128.2	114.5	109.5	109.5
47.5°	8937.6	7638.0	1369.3	354.7	262.7	173.0	125.8	104.5	93.3	89.6	88.4
50°	9797.7	8014.0	987.2	309.9	215.4	136.9	102.1	87.1	79.6	74.7	74.7
52.5°	10514.8	8132.2	727.0	261.4	174.3	109.5	84.7	74.7	67.3	63.4	63.4
55°	11145.9	8083.7	540.2	215.4	140.7	89.6	72.2	63.4	57.3	53.6	53.6
57.5°	11750.8	7926.8	403.3	175.5	113.3	72.2	61.0	53.6	47.3	44.8	44.8
60°	12245.0	7665.4	300.0	141.9	90.8	58.5	51.0	43.6	38.6	34.8	34.8
62.5°	12645.9	7376.6	220.3	117.0	72.2	46.0	39.9	36.1	28.6	24.9	24.9
65°	12648.4	6897.4	165.5	97.1	56.0	36.1	29.9	28.6	18.6	14.9	13.7
67.5°	11733.4	5946.3	127.0	83.4	43.6	27.4	22.5	23.7	10.0	6.2	4.9
68°	11401.0	5704.9	119.5	82.2	41.1	26.2	21.1	23.7	8.8	4.9	3.7
70°	9612.3	4538.5	95.9	79.6	36.1	19.9	17.4	23.7	7.5	3.7	2.5
72.5°	6148.0	2634.0	71.0	63.4	27.4	14.9	11.2	21.1	7.5	2.5	1.2
75°	2616.5	816.6	48.5	44.8	16.2	11.2	7.5	13.7	4.9	1.2	0.0
77.5°	551.5	184.3	28.6	27.4	11.2	7.5	4.9	3.7	1.2	0.0	0.0
80°	141.9	53.6	14.9	13.7	6.2	3.7	2.5	0.0	0.0	0.0	0.0
82.5°	44.8	21.1	8.8	6.2	2.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.5	12.5	4.9	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.5	3.7	1.2	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)