

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: P322692

Luminaire Tested: **GLEON-SA8C-827-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322692
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8C-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29594 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

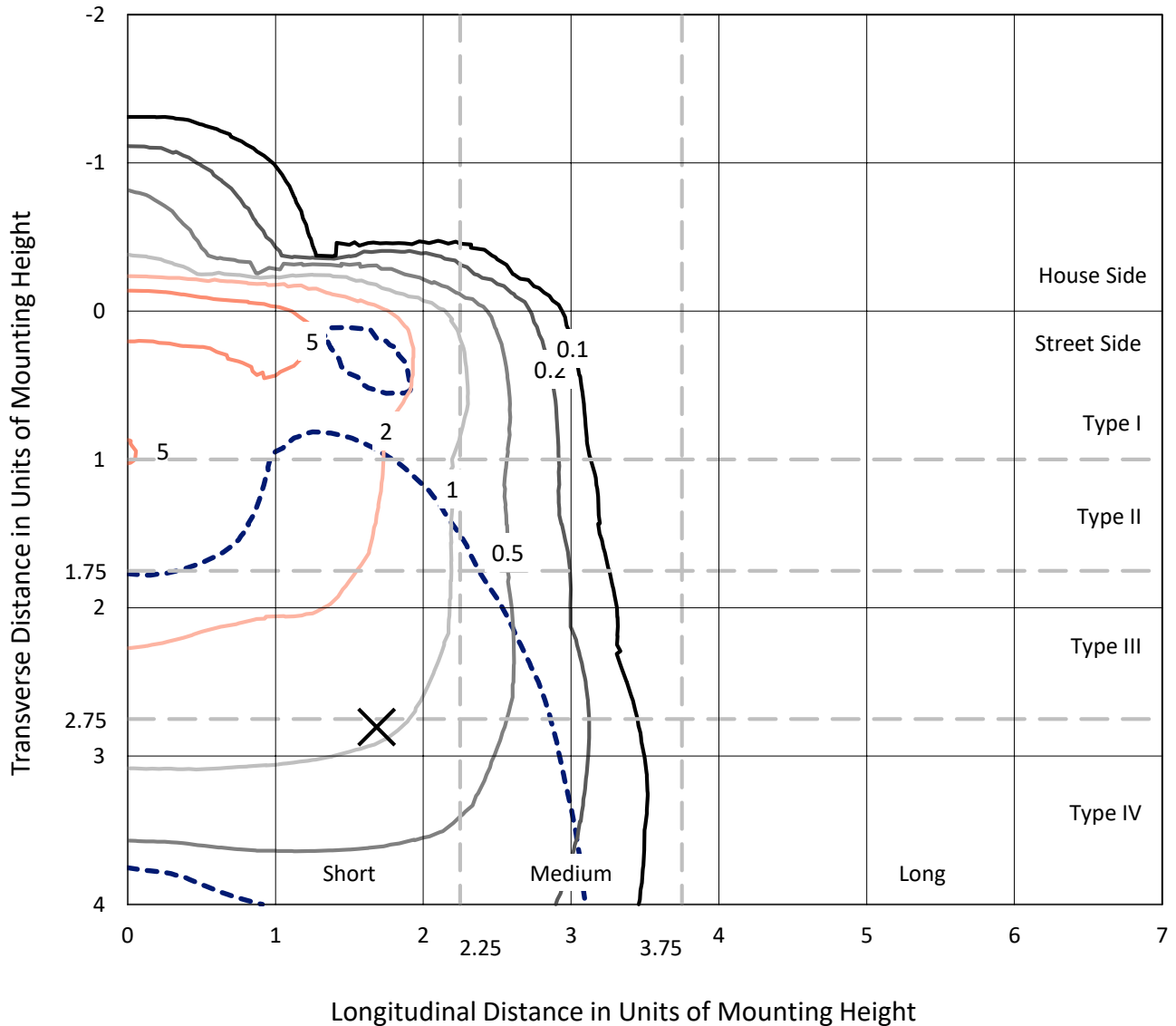
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

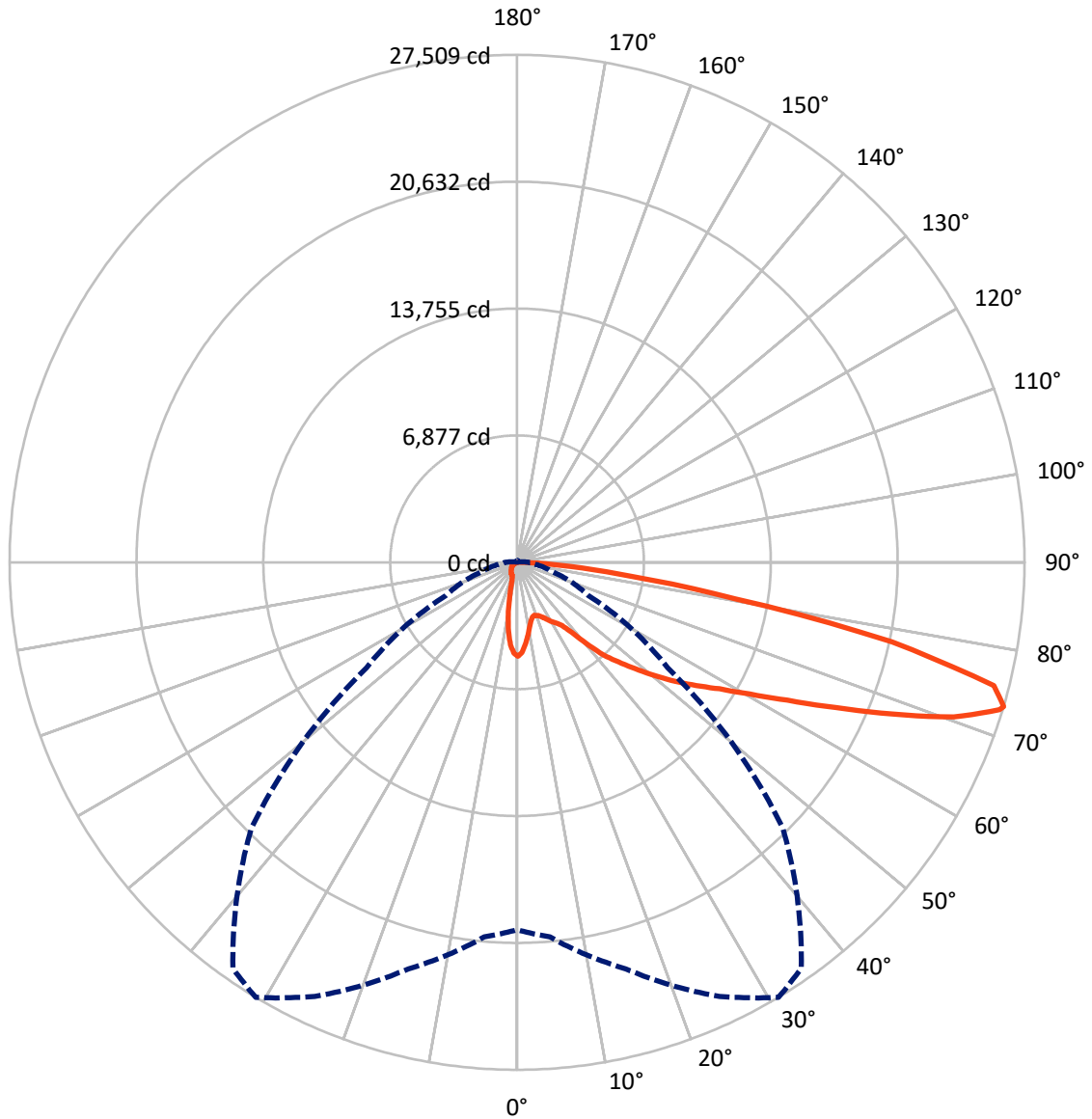
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2697.6	0.0	2697.6
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	26896.4	0.0	26896.4
	% Fixture	90.9	0.0	90.9
Total	Lumens	29594.0	0.0	29594.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.2	1.4
10°-20°	916.7	3.1
20°-30°	1373.4	4.6
30°-40°	2185.1	7.4
40°-50°	3902.0	13.2
50°-60°	6054.8	20.5
60°-70°	8049.1	27.2
70°-80°	6054.5	20.5
80°-90°	636.2	2.1
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°	29594.0	100.0
0°-180°	29594.0	100.0

Coefficient of Utilization

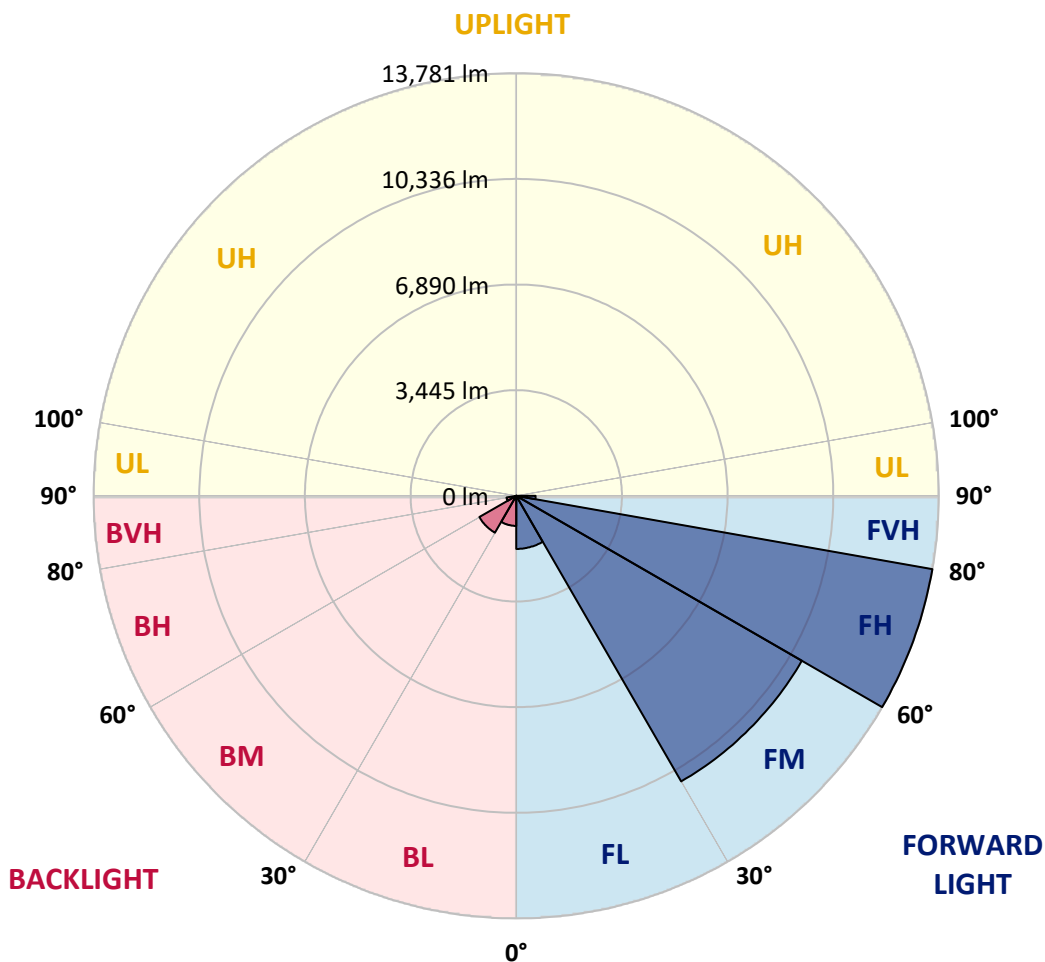


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1731.3	5.9			
FM (30°-60°)	10753.4	36.3			
FH (60°-80°)	13780.8	46.6			G5
FVH (80°-90°)	630.9	2.1			G4/750
BL (0°-30°)	981.0	3.3	B2/1000		
BM (30°-60°)	1388.5	4.7	B2/2500		
BH (60°-80°)	322.8	1.1	B1/500		G1/500
BVH (80°-90°)	5.4	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°	31°	35°	45°	55°	65°	75°	85°
0°	5091.7	5091.7	5091.7	5091.7	5091.7	5091.7	5091.7	5091.7	5091.7	5091.7	5091.7
2.5°	4825.2	4845.5	4867.2	4871.6	4907.8	4909.2	4961.4	5000.5	5039.6	5077.2	5090.3
5°	4330.0	4363.3	4402.4	4441.5	4518.2	4548.7	4676.1	4806.4	4931.0	5049.7	5107.6
7.5°	3801.4	3839.1	3894.1	3991.1	4076.6	4135.9	4337.2	4568.9	4800.6	5019.3	5145.3
10°	3319.2	3353.9	3411.9	3514.7	3646.5	3727.5	3998.4	4319.8	4660.2	4991.8	5201.8
12.5°	3012.2	3031.0	3062.8	3172.9	3291.7	3382.9	3701.5	4099.7	4544.3	4990.3	5293.0
15°	2955.7	2961.5	2935.4	2984.6	3077.3	3165.7	3488.6	3921.6	4456.0	5013.5	5411.8
17.5°	3045.5	3042.6	2955.7	2949.9	3023.7	3096.2	3384.3	3798.5	4393.7	5067.1	5565.3
20°	3181.6	3171.5	3020.8	2993.3	3071.5	3139.6	3377.1	3752.2	4370.5	5156.9	5752.1
22.5°	3362.6	3345.2	3109.2	3080.2	3164.2	3235.2	3466.9	3797.1	4390.8	5277.1	5969.3
25°	3587.1	3561.0	3261.2	3229.4	3314.8	3385.8	3627.6	3925.9	4451.6	5423.3	6244.4
27.5°	3840.5	3802.9	3504.5	3422.0	3519.0	3592.9	3842.0	4122.9	4547.2	5578.3	6581.9
30°	4079.4	4030.2	3760.9	3624.7	3743.5	3826.0	4073.7	4357.5	4700.7	5817.2	7043.8
32.5°	4319.8	4264.8	3989.7	3827.5	3934.6	4024.4	4312.6	4680.4	4988.9	6182.2	7657.8
35°	4873.0	4815.1	4477.7	4209.8	4208.3	4259.0	4647.1	5122.1	5369.8	6690.5	8390.6
37.5°	5804.2	5770.9	5449.4	4941.1	4805.0	4748.5	5103.3	5649.2	5917.2	7389.9	9217.5
40°	6823.7	6794.7	6434.1	5973.6	5766.5	5627.5	5757.9	6383.5	6690.5	8244.3	10061.8
42.5°	7975.0	7837.4	7194.4	7056.9	6871.5	6765.8	6648.5	7288.6	7640.5	9174.1	10898.8
45°	9020.5	8788.8	7954.7	7746.2	7704.2	7730.2	7795.4	8505.0	8709.2	10279.0	11732.9
47.5°	9643.3	9460.8	8820.7	8620.9	8609.3	8781.6	9274.0	9879.3	9773.6	11242.0	12467.2
50°	10235.6	10070.5	9539.0	9588.2	9641.8	9876.4	10952.4	11292.7	10745.3	12115.3	13140.5
52.5°	10714.9	10462.9	10184.9	10461.5	10725.0	11103.0	12684.4	12561.3	11434.6	12810.4	13716.9
55°	10991.5	10877.1	11011.8	11289.8	11785.1	12399.1	14319.3	13617.0	11938.6	13444.7	14100.7
57.5°	12005.2	11780.7	12048.6	12289.0	12934.9	13793.7	15719.7	14403.3	12302.1	13837.1	14189.0
60°	13231.8	13050.8	13208.6	13608.3	14480.1	15489.5	17028.8	15044.9	12491.8	14089.1	13960.2
62.5°	15183.9	14944.9	14846.5	15294.0	16449.6	17551.6	18022.3	15489.5	12449.8	13977.6	13175.3
65°	17799.3	17551.6	17111.4	17516.9	18986.7	19764.4	19133.0	15583.6	12160.1	13075.4	11191.3
67.5°	20478.3	20298.8	19922.3	20605.8	21932.3	22182.8	20307.5	15354.8	11227.5	10601.9	7906.9
70°	22248.0	22171.2	22416.0	23927.8	25111.0	25038.6	21384.9	14125.3	8751.2	6519.6	3911.5
72.5°	20972.2	21340.0	23147.3	25888.6	27333.9	26743.1	20831.7	10846.7	5001.9	2508.2	1131.0
73°	19915.0	20385.7	22818.6	25962.5	27509.1	26861.8	20366.8	9956.1	4263.4	1979.6	857.3
75°	13854.5	14432.3	18891.2	24179.8	26689.5	25593.2	16976.7	6093.8	1975.3	877.6	346.1
77.5°	6726.7	7153.9	10402.1	17470.5	20756.4	19996.1	10568.6	2270.7	892.1	548.9	159.3
80°	2511.1	2792.0	4515.3	8891.7	11995.1	12309.3	4648.6	858.8	593.7	441.7	81.1
82.5°	657.5	732.8	1665.4	3965.0	6147.4	6434.1	1465.5	433.0	434.4	363.5	49.2
85°	210.0	240.4	519.9	1779.8	2896.3	2543.0	382.3	210.0	315.7	270.8	27.5
87.5°	26.1	33.3	165.1	418.5	638.6	354.8	59.4	62.3	134.7	150.6	15.9
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°	5091.7	5091.7	5091.7	5091.7	5091.7	5091.7	5091.7	5091.7	5091.7	5091.7	5091.7
2.5°	5103.3	5096.1	5097.5	5059.8	5035.2	4986.0	4935.3	4912.1	4887.5	4877.4	4887.5
5°	5129.4	5116.3	5078.7	4962.8	4839.7	4680.4	4531.3	4418.3	4276.4	4237.3	4277.8
7.5°	5169.9	5143.8	5033.8	4797.7	4524.0	4219.9	3878.2	3629.1	3424.9	3293.1	3340.9
10°	5229.3	5180.0	4958.5	4557.3	4067.9	3529.2	3044.0	2666.1	2398.1	2288.1	2283.7
12.5°	5329.2	5236.5	4865.8	4244.5	3510.3	2792.0	2156.3	1746.5	1529.3	1388.8	1385.9
15°	5439.3	5303.1	4748.5	3869.5	2861.6	1999.9	1388.8	1077.4	937.0	892.1	886.3
17.5°	5573.9	5379.9	4596.4	3407.5	2182.4	1325.1	906.5	816.8	811.0	806.6	806.6
20°	5743.4	5471.1	4400.9	2878.9	1548.1	884.8	770.4	776.2	779.1	773.3	774.8
22.5°	5940.3	5563.8	4167.8	2311.3	1047.0	740.0	737.1	744.4	747.2	744.4	745.8
25°	6169.1	5671.0	3883.9	1716.1	755.9	702.4	709.6	719.7	727.0	727.0	727.0
27.5°	6453.0	5801.3	3542.2	1197.6	653.1	663.3	683.5	702.4	712.5	715.4	715.4
30°	6822.3	5963.5	3132.4	821.1	593.7	611.1	648.8	685.0	703.8	706.7	708.1
32.5°	7288.6	6146.0	2657.4	606.8	543.1	556.1	596.6	657.5	693.7	699.5	699.5
35°	7822.9	6357.4	2146.2	528.6	506.9	511.2	543.1	612.6	676.3	692.2	693.7
37.5°	8408.0	6565.9	1632.1	493.8	476.4	476.4	499.6	559.0	634.3	683.5	689.3
40°	8953.9	6691.9	1144.0	466.3	448.9	448.9	469.2	512.6	583.6	657.5	673.4
42.5°	9457.9	6735.4	796.5	440.2	422.9	427.2	444.6	479.3	532.9	606.8	621.3
45°	9976.3	6728.1	580.7	409.8	396.8	409.8	422.9	448.9	488.0	530.0	532.9
47.5°	10367.3	6667.3	460.5	380.9	372.2	389.6	401.1	418.5	440.2	437.3	437.3
50°	10733.7	6519.6	370.7	341.8	347.6	367.8	373.6	379.4	380.9	353.3	350.5
52.5°	11011.8	6289.3	296.9	299.8	322.9	343.2	337.4	328.7	314.2	280.9	275.1
55°	11104.4	5846.2	233.2	247.6	286.7	312.8	291.1	272.3	244.7	217.2	211.4
57.5°	10936.5	5274.2	189.7	192.6	241.8	263.6	238.9	217.2	186.8	163.6	159.3
60°	10580.2	4638.4	156.4	144.8	186.8	205.6	189.7	168.0	140.5	123.1	121.6
62.5°	9873.5	3960.7	128.9	113.0	141.9	157.8	147.7	131.8	108.6	97.0	95.6
65°	8387.7	3168.6	104.3	91.2	110.1	123.1	114.4	102.8	85.4	76.8	75.3
67.5°	5854.9	2141.8	85.4	75.3	86.9	97.0	89.8	84.0	68.1	66.6	68.1
70°	2823.9	1032.5	71.0	60.8	68.1	75.3	72.4	68.1	65.2	75.3	86.9
72.5°	809.5	346.1	56.5	50.7	55.0	59.4	62.3	60.8	71.0	91.2	105.7
73°	622.7	279.5	53.6	47.8	52.1	57.9	60.8	59.4	72.4	92.7	105.7
75°	266.5	134.7	40.5	39.1	43.4	50.7	53.6	53.6	72.4	94.1	101.4
77.5°	120.2	72.4	26.1	30.4	37.7	40.5	44.9	44.9	57.9	72.4	72.4
80°	68.1	39.1	20.3	23.2	27.5	27.5	27.5	24.6	26.1	29.0	31.9
82.5°	43.4	26.1	15.9	18.8	17.4	14.5	11.6	11.6	10.1	11.6	14.5
85°	24.6	14.5	14.5	11.6	7.2	5.8	7.2	5.8	1.4	0.0	1.4
87.5°	14.5	8.7	4.3	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)