

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: P323657

Luminaire Tested: **GLEON-SA3D-827-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323657
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-SA3D-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1200mA 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: 14877 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

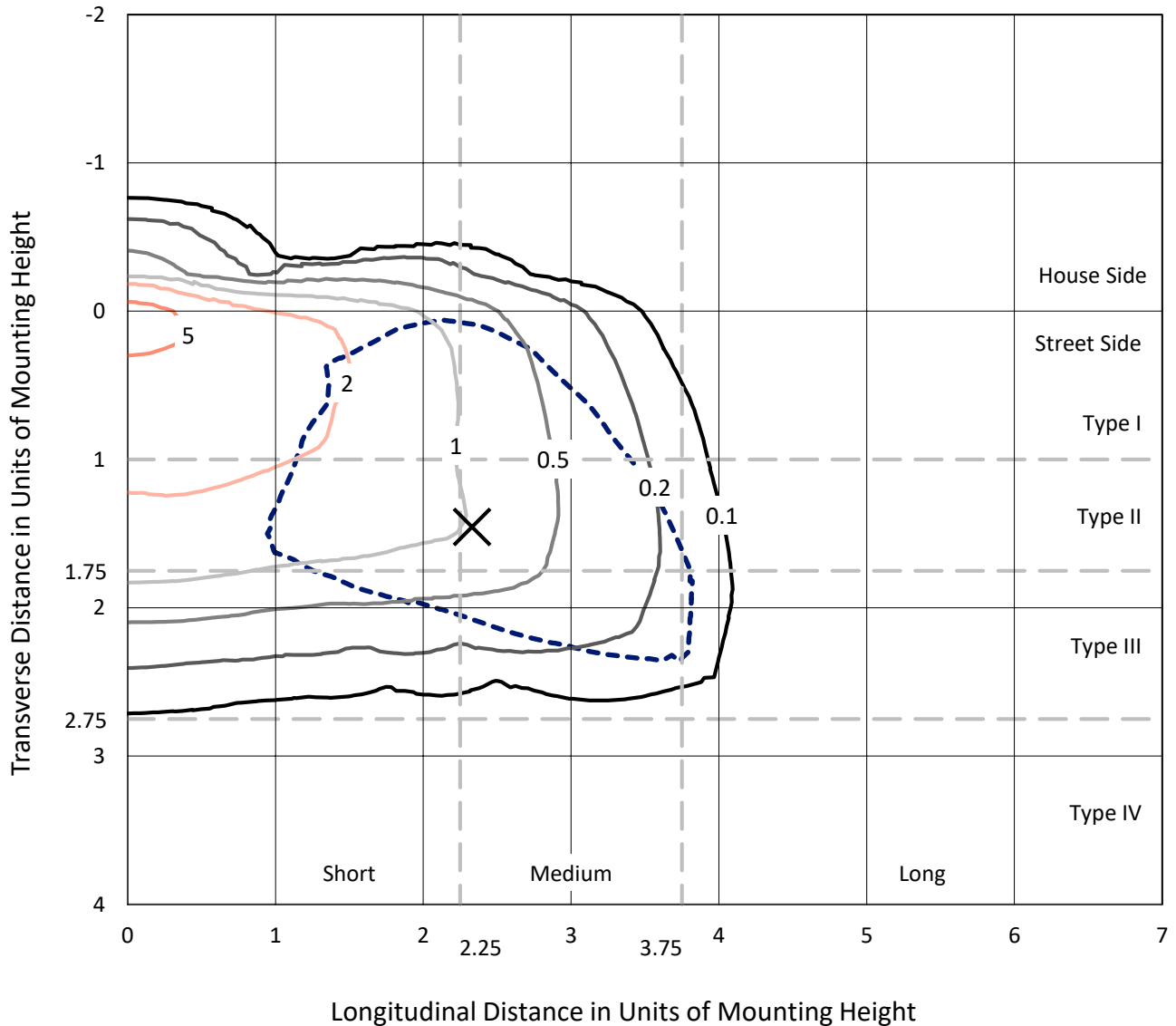
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

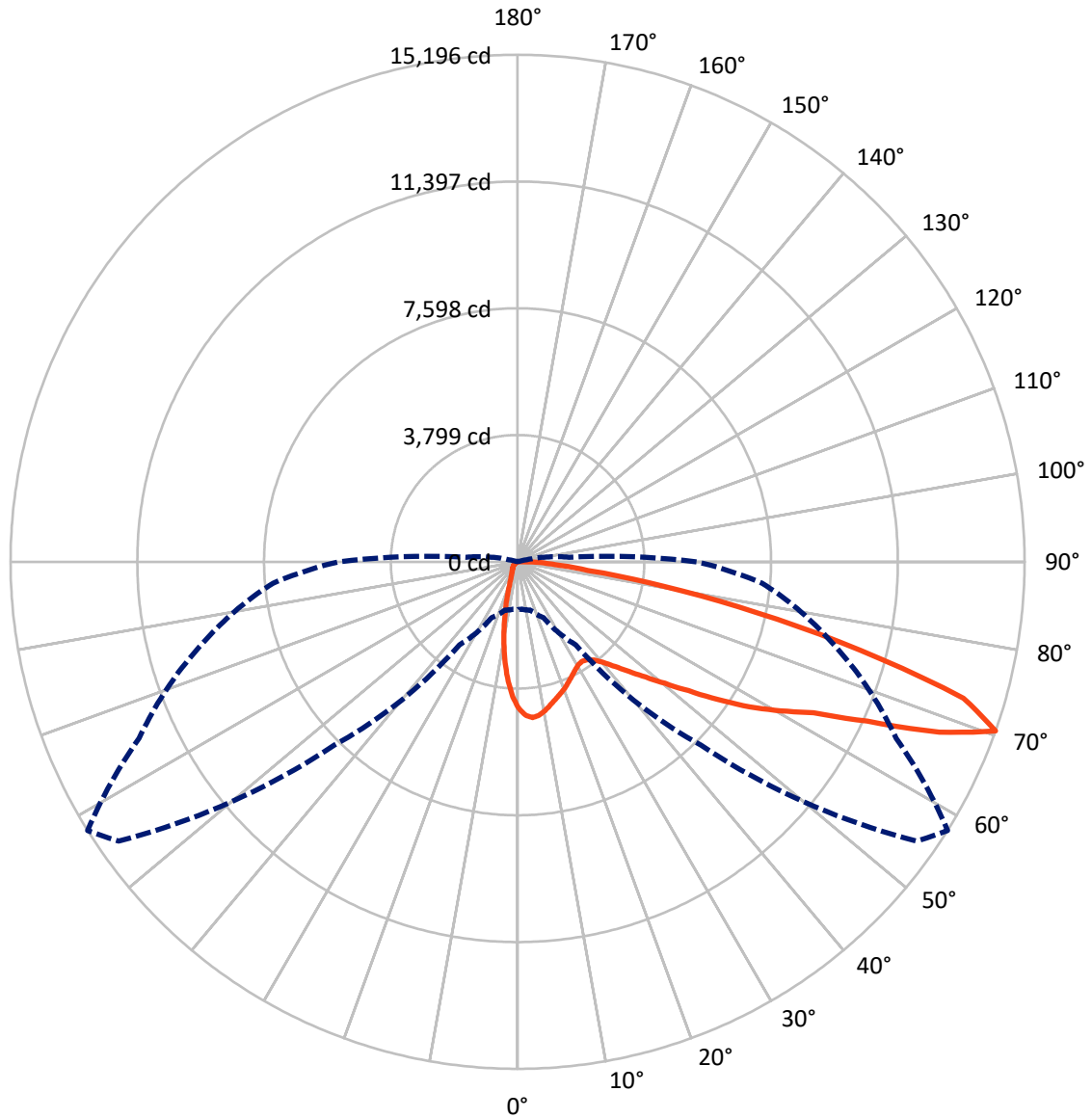
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Medium - N/A

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CATALOG NUMBER: GLEON-SA3D-827-U-SL3-HSS

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	1273.1	0.0	1273.1
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	13603.9	0.0	13603.9
	% Fixture	91.4	0.0	91.4
Total	Lumens	14877.0	0.0	14877.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.4	2.4
10°-20°	754.2	5.1
20°-30°	991.5	6.7
30°-40°	1313.2	8.8
40°-50°	1962.8	13.2
50°-60°	3144.3	21.1
60°-70°	3963.4	26.6
70°-80°	2137.9	14.4
80°-90°	250.2	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°	14877.0	100.0
0°-180°	14877.0	100.0

Coefficient of Utilization

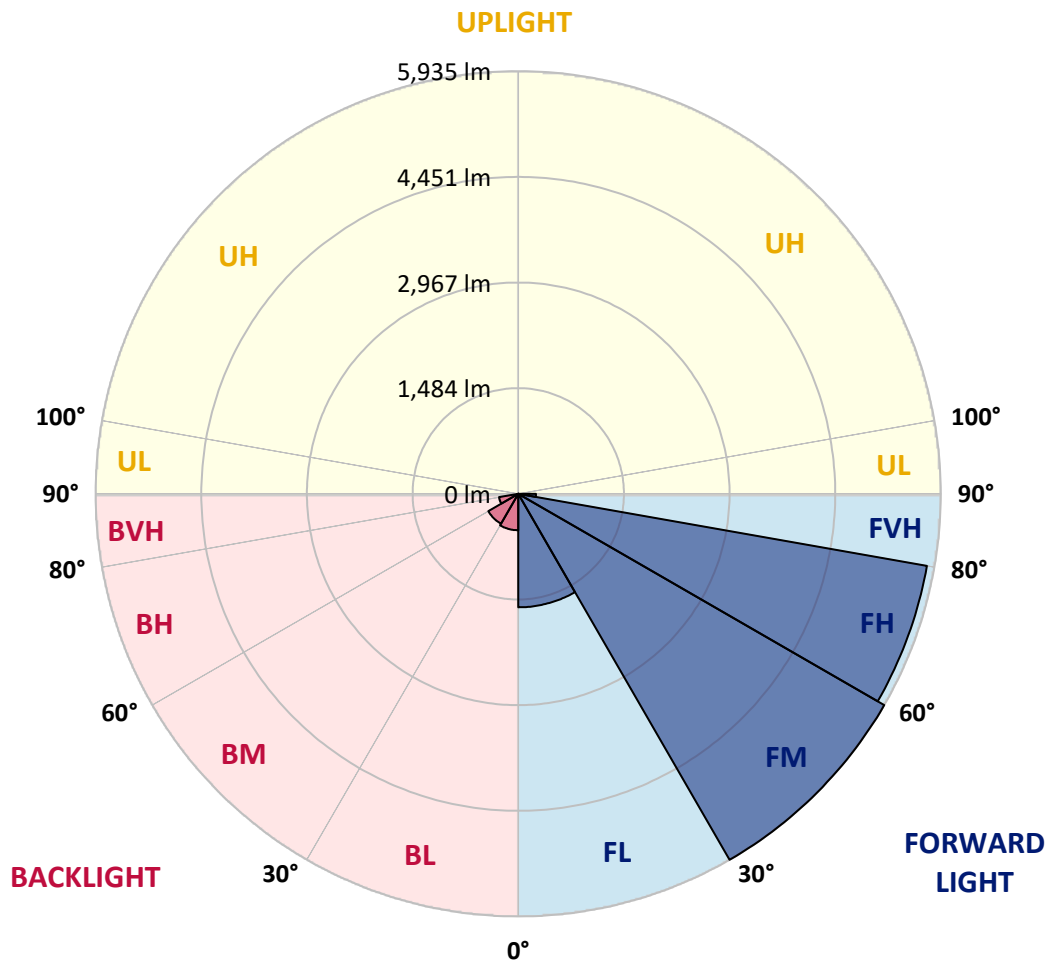


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1593.6	10.7			
FM (30°-60°)	5934.7	39.9			
FH (60°-80°)	5827.5	39.2			G3/7500
FVH (80°-90°)	248.1	1.7			G3/500
BL (0°-30°)	511.5	3.4	B2/1000		
BM (30°-60°)	485.7	3.3	B1/1000		
BH (60°-80°)	273.8	1.8	B1/500		G1/500
BVH (80°-90°)	2.2	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-G3
 Type III Medium





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CATALOG NUMBER: GLEON-SA3D-827-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4394.6	4394.6	4394.6	4394.6	4394.6	4394.6	4394.6	4394.6	4394.6	4394.6	4394.6
2.5°	4759.0	4747.2	4742.9	4735.4	4707.0	4679.2	4624.1	4608.6	4574.0	4491.7	4404.5
5°	4762.7	4762.0	4775.0	4771.9	4762.0	4749.1	4709.5	4689.1	4630.3	4512.7	4353.1
7.5°	4533.2	4544.9	4574.0	4597.5	4624.7	4660.0	4664.9	4645.1	4596.9	4470.1	4258.5
10°	4225.1	4243.7	4284.5	4330.9	4402.0	4472.5	4535.6	4533.2	4516.5	4391.5	4144.7
12.5°	3916.4	3938.1	3985.1	4053.7	4154.6	4269.6	4382.2	4397.7	4425.5	4321.0	4039.5
15°	3646.1	3664.6	3711.0	3795.2	3920.1	4074.8	4239.9	4268.4	4340.2	4265.9	3951.7
17.5°	3416.6	3428.3	3462.4	3555.8	3700.5	3888.0	4102.6	4158.3	4265.3	4222.6	3875.6
20°	3256.4	3258.2	3280.5	3346.1	3490.8	3700.5	3960.3	4040.1	4186.1	4185.5	3797.0
22.5°	3177.2	3171.0	3175.3	3213.1	3319.5	3521.7	3818.1	3912.7	4115.0	4154.0	3717.2
25°	3162.3	3157.4	3145.0	3150.0	3214.3	3365.2	3674.5	3784.0	4052.5	4134.8	3647.9
27.5°	3208.7	3213.7	3192.6	3170.4	3175.3	3263.8	3547.1	3673.9	4001.8	4134.8	3599.1
30°	3302.1	3304.6	3289.1	3260.1	3221.1	3235.3	3458.6	3585.5	3976.4	4163.2	3568.1
32.5°	3405.4	3419.0	3417.2	3393.7	3338.0	3280.5	3437.6	3553.3	3974.6	4226.3	3565.0
35°	3533.5	3549.0	3574.9	3570.0	3511.8	3417.2	3509.4	3600.3	4011.1	4330.3	3598.4
37.5°	3669.6	3693.1	3748.8	3775.4	3737.6	3630.6	3670.2	3735.2	4108.8	4498.5	3683.2
40°	3801.3	3827.9	3929.4	4033.9	4005.5	3895.4	3913.9	3965.9	4282.6	4740.4	3844.0
42.5°	3930.6	3970.2	4119.3	4291.3	4325.3	4237.5	4247.4	4288.8	4540.6	5073.2	4106.9
45°	4085.3	4129.8	4350.7	4562.9	4653.8	4615.4	4657.5	4684.7	4877.7	5513.0	4461.4
47.5°	4312.3	4363.7	4634.6	4876.5	5036.1	5060.8	5145.6	5163.5	5304.0	6025.2	4923.5
50°	4755.2	4769.5	5014.4	5234.0	5464.2	5612.6	5709.1	5722.7	5819.9	6585.1	5500.7
52.5°	5312.6	5321.9	5460.5	5607.7	5869.4	6172.5	6398.3	6417.4	6437.9	7130.7	6070.4
55°	5866.3	5865.0	5956.6	6043.2	6342.6	6783.0	7273.0	7284.7	7138.1	7648.5	6505.9
57.5°	6212.1	6245.5	6384.7	6496.0	6914.2	7479.0	8158.8	8202.1	7873.7	8032.0	6936.5
60°	6102.0	6118.0	6426.7	6838.7	7626.2	8468.1	9055.2	9066.3	8426.7	8414.9	7480.8
62.5°	5198.8	5207.4	5692.4	6541.8	7986.9	9751.1	10136.5	9955.3	9062.6	8946.3	8132.2
65°	3563.2	3619.5	4024.7	5074.4	7324.3	10555.9	11810.5	11510.4	10032.0	9712.2	8721.1
67.5°	2098.3	2086.6	2287.0	3060.3	5379.4	10021.5	13928.0	13629.8	11353.9	10225.0	8548.6
70°	1433.3	1425.3	1502.0	1852.7	3036.7	7774.1	14594.2	15196.1	12521.3	9879.8	7357.1
72.5°	1023.2	1027.5	1140.7	1439.5	1906.6	4529.5	12550.3	13975.0	12155.7	8612.9	5592.2
75°	694.7	706.5	868.5	1180.9	1671.5	2304.3	8906.1	10623.4	9898.4	6259.7	3214.3
77.5°	373.6	386.6	577.8	951.4	1511.3	1601.0	5728.9	7311.3	6217.6	2814.1	931.6
80°	155.9	163.3	270.3	691.6	1305.9	1406.1	3370.8	4433.6	2649.5	554.9	207.9
82.5°	67.4	71.1	112.6	412.6	976.2	1187.1	1784.7	2133.0	803.0	121.9	104.5
85°	13.0	13.6	46.4	218.4	622.9	670.0	1156.8	1133.9	360.6	52.6	76.1
87.5°	0.0	0.0	11.1	68.7	183.1	365.0	705.8	697.2	122.5	25.4	28.5
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°	4394.6	4394.6	4394.6	4394.6	4394.6	4394.6	4394.6	4394.6	4394.6	4394.6	4394.6
2.5°	4360.0	4317.3	4227.6	4116.8	4032.1	3938.7	3864.4	3770.4	3729.6	3731.4	3709.2
5°	4262.2	4174.4	3975.8	3725.3	3532.3	3333.1	3161.7	2991.0	2890.1	2857.4	2826.4
7.5°	4122.4	3983.2	3666.5	3280.5	2953.9	2634.7	2356.9	2112.5	1957.9	1882.4	1854.6
10°	3964.7	3769.2	3310.8	2802.3	2335.9	1904.1	1544.0	1231.0	1106.1	1021.3	999.7
12.5°	3826.1	3561.3	2963.1	2311.7	1758.1	1237.2	893.9	699.0	614.3	580.9	575.3
15°	3695.6	3367.1	2628.5	1867.6	1217.4	761.5	568.5	502.3	482.5	476.9	476.9
17.5°	3572.5	3182.1	2301.2	1430.2	805.4	533.9	470.8	455.9	449.7	449.1	449.7
20°	3443.8	2997.2	1979.5	1047.9	562.3	452.2	434.9	426.8	425.0	425.0	425.0
22.5°	3320.7	2812.2	1666.5	748.5	451.0	412.6	404.0	398.4	396.5	395.9	394.7
25°	3202.5	2636.5	1360.9	528.9	395.9	378.0	370.5	363.1	357.6	354.5	352.6
27.5°	3105.4	2480.0	1076.4	424.4	357.6	342.1	332.8	321.7	308.1	301.9	299.4
30°	3028.1	2337.1	829.6	358.2	321.7	306.2	292.0	272.8	253.0	242.5	241.9
32.5°	2967.5	2196.7	629.7	316.7	289.5	270.3	249.9	225.8	202.9	191.2	190.5
35°	2937.8	2073.0	481.3	286.4	261.1	236.9	211.6	185.0	162.7	151.6	150.3
37.5°	2957.6	1968.4	375.5	261.1	236.9	209.1	179.4	151.6	131.8	121.9	121.2
40°	3029.9	1901.6	305.0	239.4	216.5	182.5	150.3	124.3	107.6	99.6	99.0
42.5°	3184.0	1876.9	260.4	221.5	196.7	157.7	125.0	102.7	87.2	81.7	80.4
45°	3441.3	1913.4	230.1	204.1	176.3	134.2	103.3	84.1	70.5	66.2	65.6
47.5°	3784.0	2009.2	208.5	187.4	157.7	113.2	86.0	68.0	57.5	53.2	52.6
50°	4225.7	2161.4	190.5	170.7	140.4	95.9	71.1	53.8	44.5	41.4	41.4
52.5°	4706.4	2342.7	174.4	155.3	123.1	79.8	57.5	41.4	35.3	31.5	31.5
55°	5103.5	2501.0	157.1	143.5	102.1	66.2	43.9	31.5	26.0	24.1	24.1
57.5°	5500.0	2669.9	137.3	123.1	81.7	53.8	33.4	23.5	19.2	17.9	17.9
60°	6014.1	2876.5	118.2	100.2	64.3	40.8	24.7	16.7	14.2	13.6	13.6
62.5°	6579.5	2997.8	100.8	80.4	50.1	30.3	17.9	11.1	10.5	10.5	9.9
65°	6925.3	2826.4	84.7	64.3	39.0	22.9	11.8	8.0	9.3	8.7	7.4
67.5°	6484.3	2212.8	69.3	50.1	30.3	17.3	7.4	5.6	9.9	8.0	6.2
70°	5368.9	1549.0	53.8	35.3	24.1	14.8	4.9	3.7	10.5	8.0	4.9
72.5°	4017.9	1036.8	42.7	23.5	17.9	13.0	4.3	1.9	9.3	6.8	4.3
75°	2195.4	417.6	34.0	14.8	11.1	9.3	3.1	1.2	6.2	4.9	3.1
77.5°	577.8	110.1	24.7	9.9	6.2	3.7	1.9	0.6	3.1	2.5	1.2
80°	147.2	42.7	16.1	6.8	4.3	1.9	0.0	0.0	0.6	0.0	0.0
82.5°	78.6	17.9	9.9	4.9	2.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	59.4	11.8	5.6	3.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.9	3.7	1.9	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)