

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: P323959

Luminaire Tested: **GLEON-SA5B-827-U-SL4-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323959  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA5B-827-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17041 lumens  
Efficiency: N/A  
Efficacy: 81.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

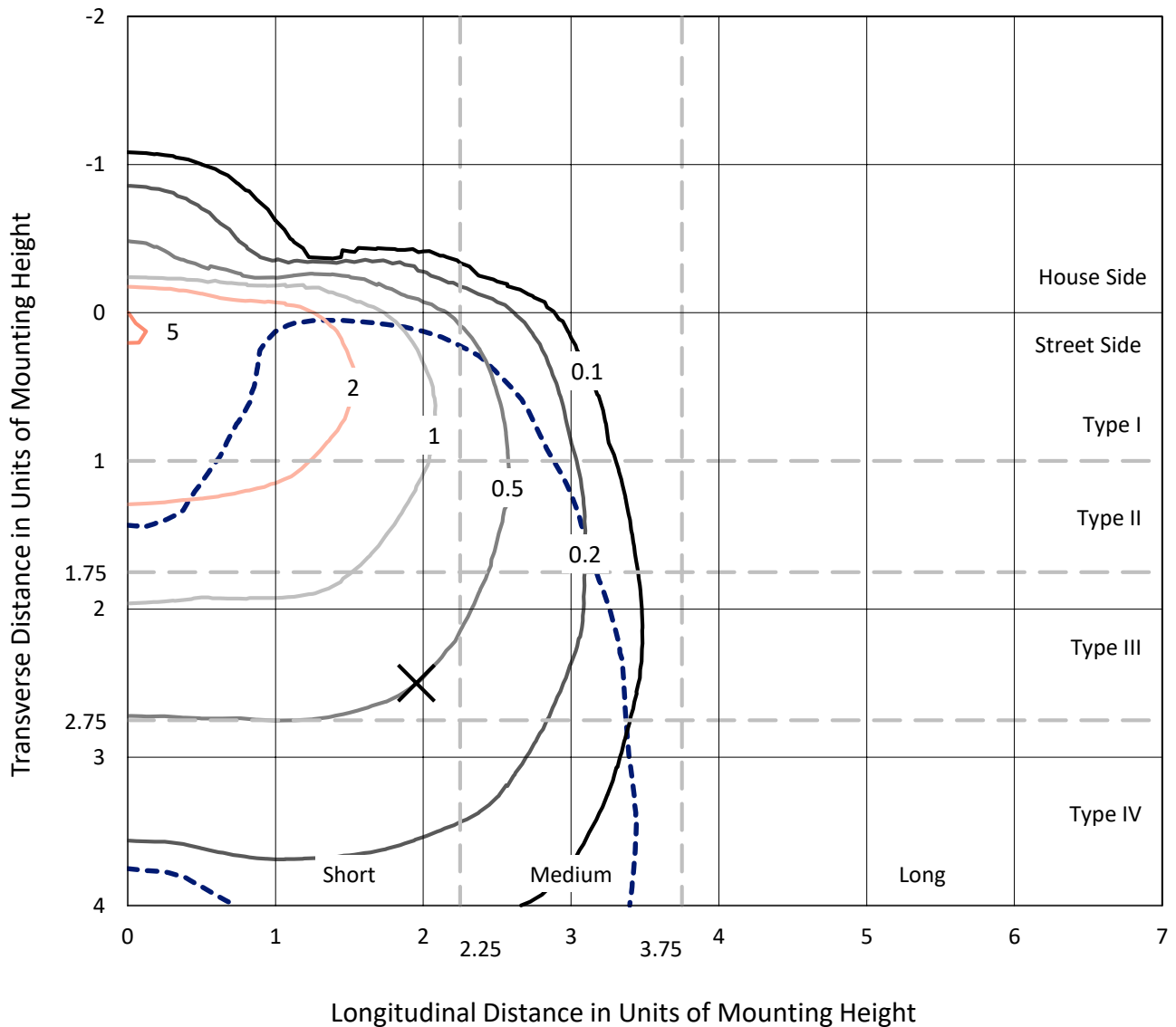
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

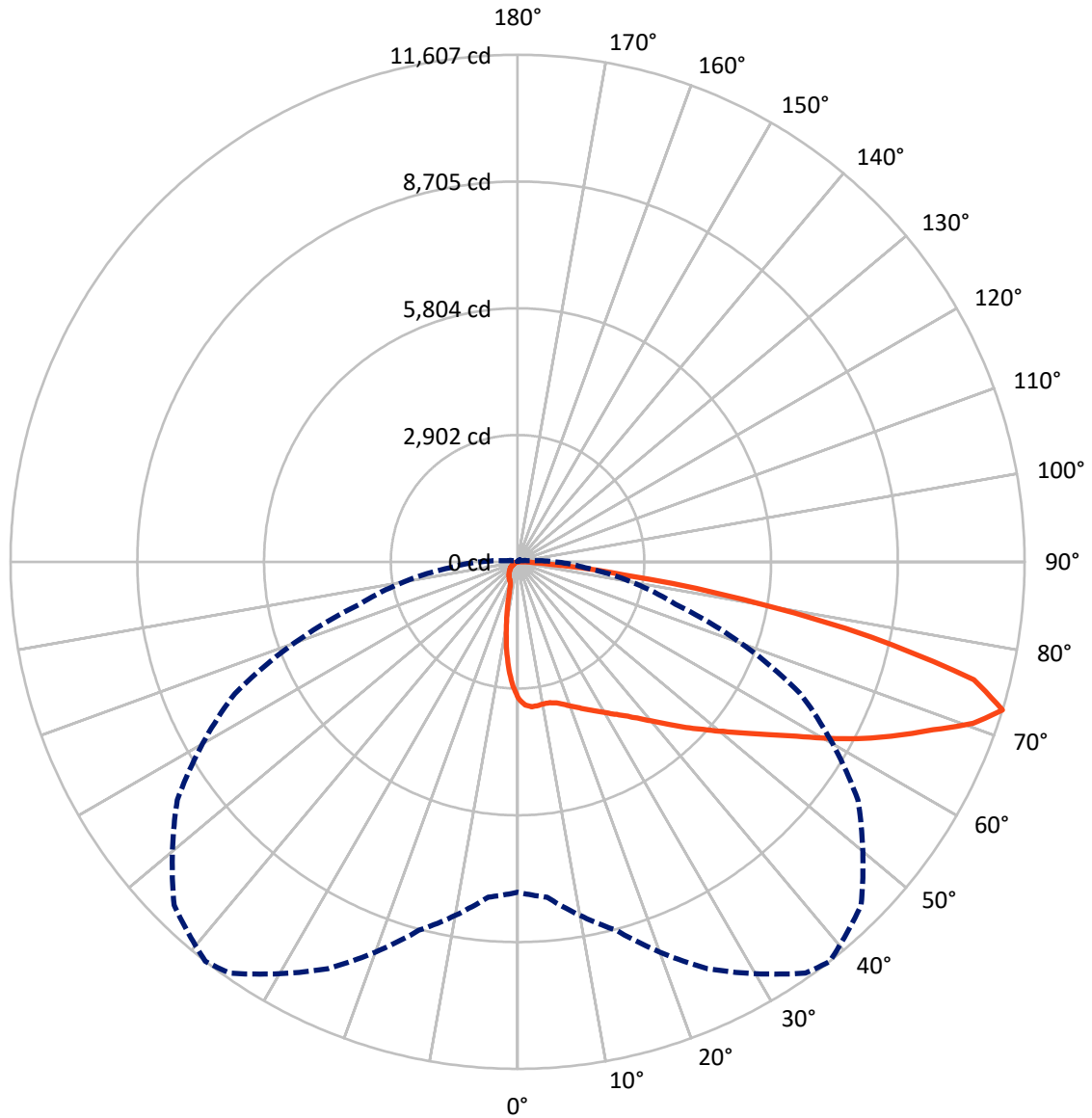
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1434.1	0.0	1434.1
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	15606.9	0.0	15606.9
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	17041.0	0.0	17041.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	267.1	1.6
10°-20°	653.0	3.8
20°-30°	1038.6	6.1
30°-40°	1561.4	9.2
40°-50°	2382.1	14.0
50°-60°	3366.7	19.8
60°-70°	4223.0	24.8
70°-80°	3157.6	18.5
80°-90°	391.5	2.3
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°	17041.0	100.0
0°-180°	17041.0	100.0

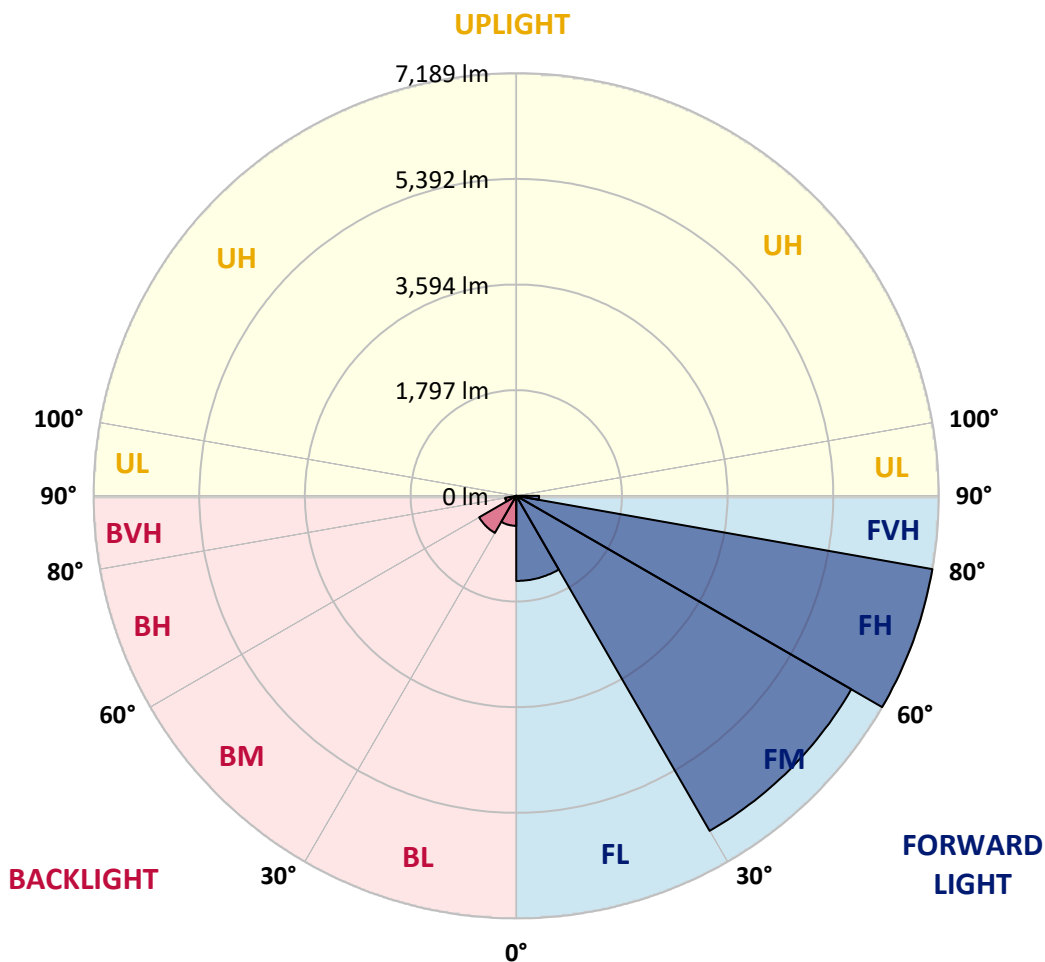


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1448.1	8.5			
FM (30°-60°)	6582.0	38.6			
FH (60°-80°)	7189.0	42.2			G3/7500
FVH (80°-90°)	387.9	2.3			G3/500
BL (0°-30°)	510.6	3.0	B2/1000		
BM (30°-60°)	728.2	4.3	B1/1000		
BH (60°-80°)	191.6	1.1	B1/500		G1/500
BVH (80°-90°)	3.7	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3133.8	3133.8	3133.8	3133.8	3133.8	3133.8	3133.8	3133.8	3133.8	3133.8	3133.8
2.5°	3326.3	3327.0	3319.2	3306.5	3290.2	3281.7	3267.5	3244.9	3220.8	3177.7	3131.0
5°	3394.2	3394.2	3384.3	3367.3	3341.1	3333.4	3306.5	3270.4	3220.8	3150.8	3072.2
7.5°	3387.1	3388.6	3375.1	3357.4	3331.2	3324.2	3291.6	3251.3	3189.7	3104.8	3004.3
10°	3350.3	3353.9	3343.3	3334.8	3310.7	3302.9	3272.5	3232.2	3170.6	3080.0	2964.6
12.5°	3312.8	3316.4	3319.9	3327.7	3312.8	3310.0	3285.9	3252.0	3193.2	3099.1	2968.9
15°	3288.8	3295.9	3321.3	3351.8	3355.3	3352.5	3336.9	3305.1	3245.6	3147.9	2999.3
17.5°	3288.8	3300.1	3353.2	3411.2	3431.7	3433.9	3420.4	3375.8	3305.1	3200.3	3027.6
20°	3316.4	3331.9	3414.7	3496.8	3530.8	3530.8	3504.6	3442.3	3359.5	3247.7	3046.7
22.5°	3387.1	3407.7	3511.7	3606.5	3642.6	3634.8	3599.5	3508.9	3416.2	3301.5	3070.8
25°	3526.6	3542.1	3650.4	3746.0	3767.9	3750.2	3705.6	3589.6	3488.4	3374.4	3114.7
27.5°	3706.3	3708.5	3820.3	3901.0	3887.5	3875.5	3819.6	3690.8	3592.4	3478.4	3190.4
30°	3903.8	3903.8	4002.2	4063.7	4022.7	4012.8	3956.9	3813.2	3725.4	3620.0	3298.0
32.5°	4094.9	4103.4	4183.3	4222.3	4176.3	4166.3	4111.9	3968.2	3902.4	3835.8	3465.7
35°	4279.6	4286.0	4361.7	4382.9	4339.0	4341.9	4302.9	4181.2	4156.4	4147.9	3718.4
37.5°	4458.6	4460.1	4537.2	4550.6	4528.7	4552.8	4556.3	4448.7	4494.7	4563.4	4074.3
40°	4622.1	4623.5	4700.0	4734.6	4772.2	4803.3	4830.9	4773.6	4925.7	5085.0	4498.3
42.5°	4753.0	4767.9	4864.9	4930.7	5029.8	5089.2	5164.2	5161.4	5438.8	5678.0	5010.7
45°	4868.4	4893.9	5029.1	5144.4	5314.3	5409.1	5526.6	5618.6	6016.3	6338.3	5529.4
47.5°	5020.6	5044.6	5198.9	5387.9	5614.3	5738.9	5933.5	6132.4	6651.2	6986.6	6036.1
50°	5235.0	5224.4	5376.5	5647.6	5938.5	6102.0	6379.4	6677.3	7281.0	7551.4	6334.1
52.5°	5463.6	5459.4	5571.9	5930.0	6320.6	6511.7	6878.3	7240.7	7883.3	7940.6	6470.7
55°	5746.7	5716.3	5811.1	6252.0	6774.3	6979.5	7411.2	7798.4	8363.1	8160.0	6539.3
57.5°	6043.2	5993.0	6083.6	6610.8	7286.0	7528.7	8001.5	8341.9	8682.3	8310.0	6538.6
60°	6349.7	6290.2	6397.8	7059.5	7921.5	8202.5	8641.3	8709.2	8980.3	8385.8	6490.5
62.5°	6605.9	6570.5	6730.4	7539.3	8631.4	8907.4	9124.6	9043.2	9231.5	8444.5	6378.0
65°	6876.9	6879.0	7137.4	8099.1	9385.8	9571.9	9590.3	9476.4	9441.7	8432.5	5997.2
67.5°	7243.5	7277.5	7708.5	8859.2	10119.7	10263.4	10261.9	9945.6	9595.3	7954.1	5152.9
70°	7631.3	7711.3	8366.7	9729.0	10920.8	11066.6	10991.6	10244.2	9034.8	6431.8	3646.9
72.5°	7566.2	7704.9	8732.6	10277.5	11496.2	11607.3	11119.7	9510.3	7140.9	3738.2	1552.7
75°	5837.3	5997.9	8007.1	9734.0	10892.5	10792.7	9554.2	7400.6	3902.4	1043.2	349.6
77.5°	3083.5	3169.2	5289.5	7415.5	8493.3	8284.6	6730.4	4105.5	1189.7	258.3	157.1
80°	1615.0	1634.8	2305.0	4207.4	5242.1	5243.5	3988.7	1803.3	490.4	132.3	105.5
82.5°	864.8	881.8	1218.0	1944.1	2746.7	2489.8	1527.3	992.2	285.2	75.0	101.2
85°	208.1	211.6	690.7	888.2	1080.0	771.4	453.6	833.0	77.1	43.9	82.1
87.5°	80.0	81.4	256.2	384.3	275.3	178.3	212.3	310.7	9.9	17.0	12.7
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°	3133.8	3133.8	3133.8	3133.8	3133.8	3133.8	3133.8	3133.8	3133.8	3133.8	3133.8
2.5°	3102.6	3084.2	3038.9	2981.6	2930.7	2893.9	2838.7	2802.6	2778.5	2777.8	2768.6
5°	3024.1	2986.6	2888.9	2772.8	2667.4	2572.6	2460.7	2372.3	2306.5	2295.8	2273.2
7.5°	2939.9	2878.3	2728.3	2547.1	2370.2	2190.4	1981.6	1852.1	1741.0	1687.9	1682.3
10°	2888.2	2801.9	2588.8	2327.0	2049.6	1757.3	1484.1	1295.1	1158.5	1119.6	1090.6
12.5°	2877.6	2763.6	2481.3	2120.3	1724.0	1337.6	1035.4	834.4	725.4	690.7	681.5
15°	2888.2	2746.0	2390.7	1915.8	1394.2	949.1	695.0	578.2	537.2	527.3	526.5
17.5°	2894.6	2724.7	2288.1	1688.6	1074.3	678.0	532.2	498.2	491.9	491.2	492.6
20°	2893.9	2692.2	2165.6	1435.3	799.0	532.9	481.2	474.2	472.8	473.5	472.8
22.5°	2888.9	2653.9	2031.2	1174.1	603.7	476.3	459.3	455.1	454.4	454.4	454.4
25°	2898.1	2623.5	1883.2	924.3	497.5	450.1	439.5	436.0	435.2	435.2	433.8
27.5°	2931.4	2606.5	1721.2	711.3	449.4	426.8	418.3	417.6	415.4	414.7	416.1
30°	2985.2	2606.5	1543.5	553.4	420.4	402.7	396.3	394.9	394.2	393.5	394.2
32.5°	3080.0	2626.3	1349.6	460.0	392.8	375.8	371.6	373.7	371.6	371.6	371.6
35°	3251.3	2685.8	1146.5	401.3	363.8	349.6	345.4	348.2	346.8	346.8	346.1
37.5°	3501.1	2796.2	942.0	365.9	338.3	323.4	317.8	322.0	320.6	320.6	319.9
40°	3805.4	2956.9	747.4	339.0	313.5	298.0	293.0	295.1	291.6	291.6	293.0
42.5°	4181.2	3160.7	577.5	312.8	288.7	273.9	271.1	268.9	262.6	259.0	259.7
45°	4598.8	3373.0	450.1	287.3	265.4	253.4	249.1	243.5	232.8	225.8	226.5
47.5°	4971.7	3536.5	365.9	262.6	244.2	235.0	228.6	218.0	202.4	193.9	194.6
50°	5167.8	3561.2	311.4	237.8	224.3	215.1	205.9	189.7	171.3	162.1	161.4
52.5°	5218.0	3445.2	271.1	215.1	204.5	193.9	181.9	159.9	139.4	129.5	128.1
55°	5236.4	3268.3	235.0	193.9	183.3	171.3	155.7	130.9	111.8	101.9	101.2
57.5°	5175.6	3004.3	206.7	174.8	162.1	147.2	128.1	104.7	86.3	78.6	78.6
60°	5040.4	2646.9	184.7	154.3	140.1	123.1	103.3	81.4	64.4	58.0	58.0
62.5°	4770.7	2184.0	164.2	133.1	119.6	101.9	83.5	61.6	45.3	41.8	42.5
65°	4261.9	1656.8	143.7	113.9	101.9	84.2	65.1	43.9	30.4	30.4	31.8
67.5°	3475.6	1150.8	122.4	97.0	87.8	68.6	49.5	30.4	21.2	24.1	26.9
70°	2300.8	645.4	104.7	80.0	75.0	54.5	36.8	20.5	17.0	22.6	27.6
72.5°	868.4	251.2	87.8	64.4	65.1	41.8	26.2	15.6	15.6	24.8	32.6
75°	242.0	123.1	63.0	47.4	51.0	30.4	19.1	13.4	14.9	28.3	38.2
77.5°	142.3	90.6	41.0	27.6	34.7	21.2	12.7	10.6	12.7	24.1	36.8
80°	114.7	48.1	24.1	14.2	19.1	12.0	8.5	6.4	3.5	9.2	19.1
82.5°	114.7	29.0	11.3	9.9	9.9	6.4	4.2	2.8	0.7	0.0	5.0
85°	77.1	12.0	7.1	6.4	5.0	2.1	1.4	0.7	0.0	0.0	0.0
87.5°	12.7	5.0	2.8	1.4	0.7	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)