

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: P321710

Luminaire Tested: **GLEON-SA6A-827-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321710
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6A-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15758 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

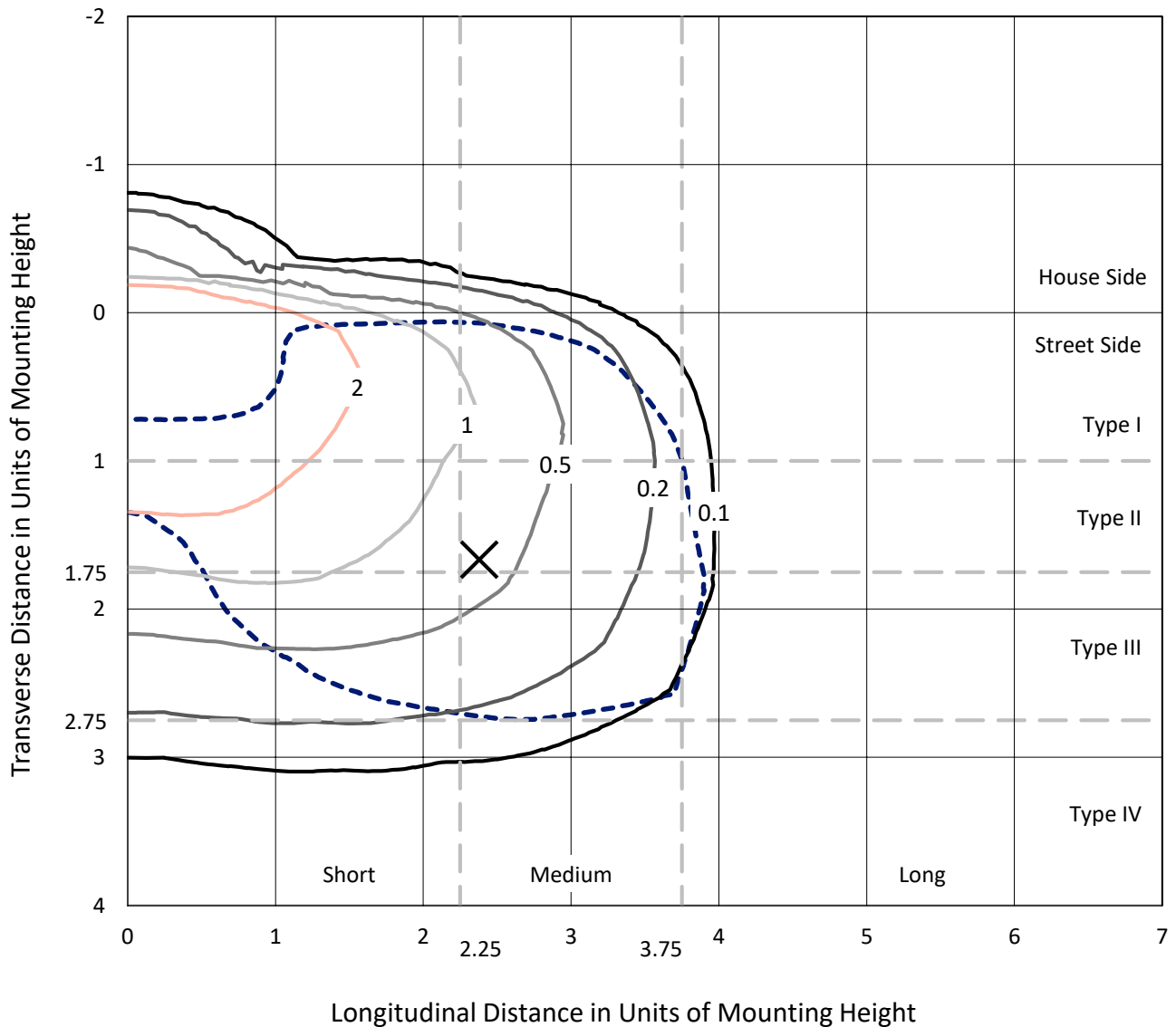
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GLEON-SA6A-827-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

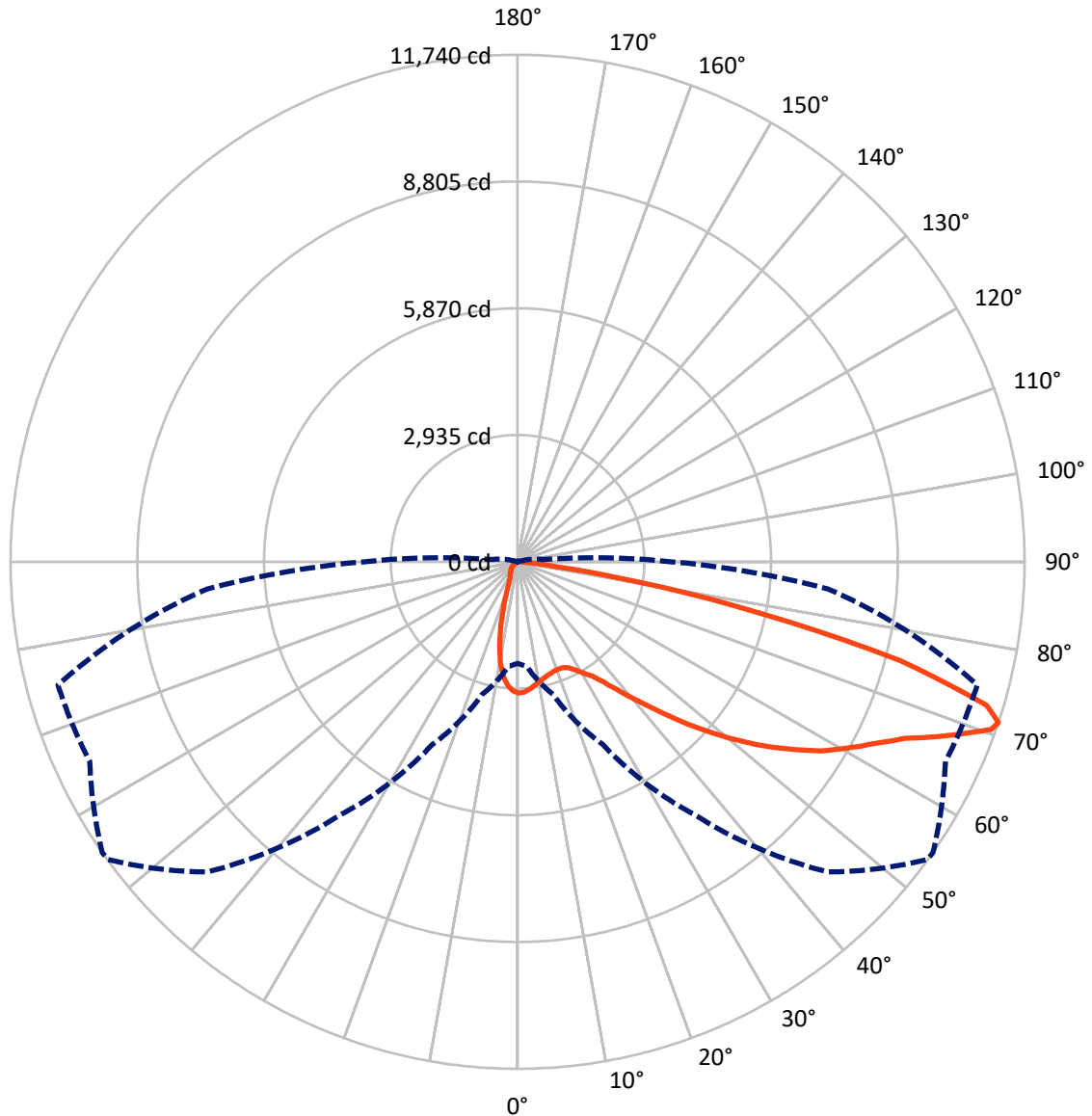
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type III - Medium - N/A

REPORT NUMBER: P321710
CATALOG NUMBER: GLEON-SA6A-827-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1247.6	0.0	1247.6
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	14510.4	0.0	14510.4
	% Fixture	92.1	0.0	92.1
Total	Lumens	15758.0	0.0	15758.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.1	1.6
10°-20°	585.0	3.7
20°-30°	940.1	6.0
30°-40°	1597.2	10.1
40°-50°	2479.1	15.7
50°-60°	3333.1	21.2
60°-70°	4077.4	25.9
70°-80°	2384.0	15.1
80°-90°	103.0	0.7
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°	15758.0	100.0
0°-180°	15758.0	100.0

Coefficient of Utilization



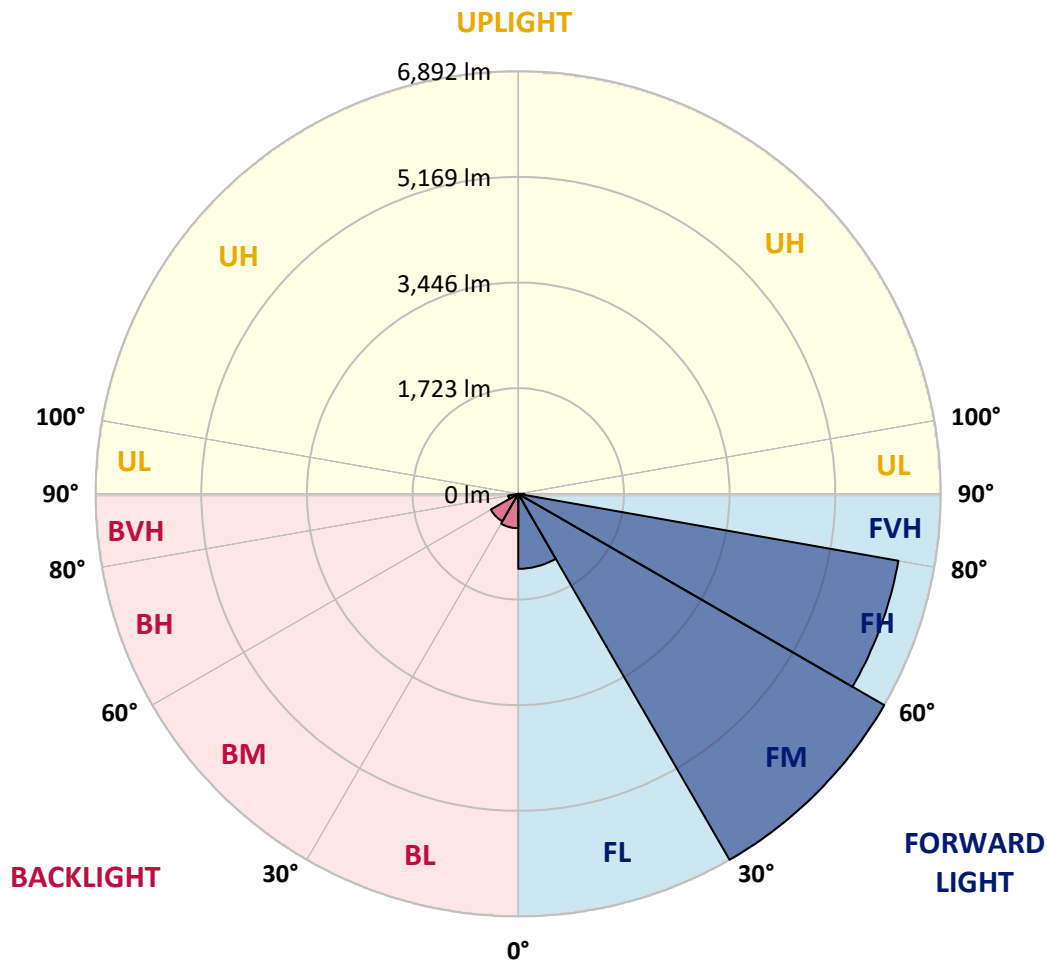
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1222.6	7.8			
FM (30°-60°)	6892.1	43.7			
FH (60°-80°)	6294.3	39.9			G3/7500
FVH (80°-90°)	101.4	0.6			G2/225
BL (0°-30°)	561.5	3.6	B2/1000		
BM (30°-60°)	517.3	3.3	B1/1000		
BH (60°-80°)	167.2	1.1	B1/500		G1/500
BVH (80°-90°)	1.6	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-G3

Type III Medium





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CATALOG NUMBER: GLEON-SA6A-827-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3039.0	3039.0	3039.0	3039.0	3039.0	3039.0	3039.0	3039.0	3039.0	3039.0	3039.0
2.5°	2949.8	2953.4	2966.1	2971.8	2985.2	3007.9	3019.2	3019.9	3038.3	3045.4	3051.0
5°	2741.1	2762.3	2783.6	2806.2	2847.2	2901.7	2955.5	2960.4	3019.9	3063.8	3087.1
7.5°	2561.4	2580.5	2606.0	2642.0	2700.1	2785.7	2875.5	2886.2	2998.7	3098.4	3150.8
10°	2376.7	2392.3	2429.1	2482.1	2562.1	2676.7	2797.7	2815.4	2979.6	3145.1	3237.1
12.5°	2179.3	2188.5	2233.1	2309.5	2426.9	2572.7	2731.9	2755.3	2967.5	3198.9	3339.0
15°	2029.3	2033.5	2076.0	2155.2	2289.7	2479.3	2681.0	2709.3	2970.4	3263.3	3450.1
17.5°	1991.1	1993.2	2015.8	2070.3	2189.2	2395.8	2640.6	2675.3	2978.8	3326.3	3561.9
20°	2146.0	2131.2	2107.8	2099.3	2150.3	2345.6	2616.6	2655.5	2990.2	3382.2	3662.4
22.5°	2571.3	2527.4	2430.5	2301.0	2222.5	2349.1	2622.9	2661.9	3026.3	3450.8	3778.4
25°	3202.4	3141.6	2976.7	2722.0	2477.2	2451.0	2676.0	2715.6	3096.3	3532.9	3889.5
27.5°	3920.6	3860.5	3658.8	3295.1	2877.7	2652.7	2797.7	2834.5	3200.3	3605.7	3974.4
30°	4608.4	4591.4	4353.6	3940.4	3381.4	2979.6	2954.8	2985.9	3277.4	3649.6	4041.6
32.5°	5191.4	5164.5	4973.5	4571.6	3958.1	3372.2	3139.5	3148.7	3335.5	3706.2	4129.3
35°	5732.0	5698.7	5531.0	5151.1	4549.6	3852.0	3423.9	3410.5	3462.1	3820.1	4256.7
37.5°	6203.9	6234.3	6048.3	5686.7	5080.3	4350.8	3807.4	3767.1	3660.2	4005.5	4441.4
40°	6598.7	6598.7	6501.8	6200.4	5653.4	4866.6	4241.1	4188.1	3958.1	4291.4	4675.6
42.5°	6741.0	6771.4	6807.5	6636.9	6166.4	5403.0	4724.4	4669.2	4377.7	4696.8	4971.3
45°	6749.5	6797.6	6982.2	6981.5	6629.9	5935.8	5269.2	5243.0	4915.4	5217.6	5337.9
47.5°	6629.9	6690.0	6994.3	7166.9	6997.1	6431.8	5865.0	5832.4	5547.3	5855.8	5721.4
50°	6445.2	6511.7	6865.5	7239.8	7246.9	6863.4	6492.6	6443.8	6242.8	6585.3	6117.6
52.5°	6114.8	6243.5	6750.2	7256.8	7411.0	7236.3	7089.8	7068.6	7021.2	7287.9	6433.2
55°	5407.9	5550.8	6460.8	7262.4	7563.2	7566.7	7649.5	7655.1	7750.7	7944.5	6668.1
57.5°	5073.9	5154.6	5955.6	7289.3	7788.9	7941.7	8219.8	8263.6	8411.5	8567.9	6936.2
60°	4863.8	4959.3	5706.5	7252.5	8143.4	8433.5	8748.3	8763.2	8921.7	9211.1	7299.2
62.5°	4696.1	4790.2	5549.4	7111.0	8541.7	9025.0	9264.8	9266.3	9385.1	9977.4	7711.7
65°	4282.2	4361.4	5231.7	6951.8	8804.9	9610.1	9864.9	9855.7	9952.6	10785.4	8190.8
67.5°	3683.6	3744.4	4582.9	6348.3	8705.9	10142.2	10770.5	10740.1	10622.7	11483.8	8379.0
70°	2847.9	2869.9	3612.1	5290.5	7777.5	10346.7	11645.8	11630.2	11033.8	11358.5	7689.1
71°	2354.1	2426.2	3183.3	4669.2	7155.6	10157.8	11730.7	11739.9	10930.4	11017.5	7214.3
72.5°	1367.0	1428.6	2307.4	3585.9	6075.1	9369.6	11290.6	11357.1	10447.9	10021.2	6162.2
75°	292.9	313.5	855.4	1735.7	3341.8	6566.9	8911.8	9148.8	8515.5	6817.4	3714.0
77.5°	203.8	220.1	366.5	787.5	1104.5	3244.9	5536.0	5803.4	5087.4	2562.1	1188.7
80°	161.3	179.7	285.9	389.2	298.6	1046.5	2593.2	2756.7	1696.7	571.7	200.2
82.5°	89.9	106.8	222.9	210.1	114.6	198.8	726.0	820.8	339.6	115.3	47.4
85°	26.2	31.8	143.6	152.8	48.8	38.2	123.8	153.5	64.4	30.4	21.2
87.5°	0.0	0.0	69.3	58.7	14.2	5.7	11.3	12.7	12.7	12.7	14.2
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°	3039.0	3039.0	3039.0	3039.0	3039.0	3039.0	3039.0	3039.0	3039.0	3039.0	3039.0
2.5°	3051.0	3056.0	3038.3	3014.9	2990.2	2959.7	2927.9	2903.1	2902.4	2890.4	2878.4
5°	3088.5	3085.7	3036.9	2962.6	2874.8	2783.6	2696.5	2598.2	2565.6	2525.3	2511.9
7.5°	3157.9	3138.0	3034.7	2872.0	2679.5	2488.5	2291.1	2092.3	2007.4	1930.9	1917.5
10°	3244.9	3207.4	3021.3	2736.1	2383.1	2030.7	1732.8	1462.5	1343.7	1252.4	1248.1
12.5°	3335.5	3278.1	2983.8	2531.0	1994.6	1499.3	1156.2	890.1	791.1	727.4	733.0
15°	3430.3	3344.7	2903.1	2254.3	1552.4	1017.5	710.4	554.0	514.4	498.1	502.4
17.5°	3527.2	3390.6	2790.6	1921.0	1115.8	656.6	491.8	447.9	447.9	451.4	452.8
20°	3611.4	3415.4	2625.1	1547.4	756.4	478.3	430.2	423.8	427.4	433.0	433.7
22.5°	3694.9	3416.8	2409.3	1168.9	529.3	418.9	409.7	406.8	409.0	415.3	416.0
25°	3762.8	3399.8	2139.0	831.4	422.4	394.8	390.6	389.2	390.6	398.4	398.4
27.5°	3790.4	3338.3	1809.2	584.4	378.5	367.9	366.5	367.9	370.1	375.7	376.4
30°	3793.2	3230.7	1449.8	423.1	343.2	331.8	334.7	339.6	337.5	336.1	337.5
32.5°	3800.3	3106.2	1099.6	348.1	313.5	295.8	292.2	292.2	283.7	278.8	275.9
35°	3823.7	2959.7	797.4	312.7	283.0	262.5	249.1	233.5	217.2	208.7	206.6
37.5°	3860.5	2806.2	571.0	289.4	256.1	232.8	207.3	179.7	156.4	150.0	150.0
40°	3927.7	2647.7	422.4	271.0	234.9	205.9	167.7	131.6	110.4	106.8	106.8
42.5°	4033.8	2480.7	336.8	254.7	216.5	178.3	128.1	95.5	80.0	77.8	77.1
45°	4144.2	2296.8	294.3	239.2	196.7	146.5	94.8	70.8	61.6	59.4	59.4
47.5°	4254.6	2100.8	273.8	224.3	177.6	113.9	70.8	55.9	51.7	51.7	52.4
50°	4348.0	1896.3	259.0	208.0	152.8	86.3	55.9	47.4	46.0	48.8	49.5
52.5°	4371.3	1695.3	240.6	187.5	122.4	65.8	46.0	41.7	41.7	41.7	41.7
55°	4357.2	1539.7	216.5	162.0	90.6	52.4	39.6	36.8	36.1	36.1	36.1
57.5°	4405.3	1447.7	173.4	125.9	65.1	42.5	34.7	32.5	31.1	30.4	30.4
60°	4502.2	1387.5	123.8	90.6	48.8	35.4	29.7	27.6	25.5	24.1	24.1
62.5°	4631.0	1335.2	92.0	67.2	37.5	28.3	24.8	22.6	19.8	18.4	18.4
65°	4730.1	1241.8	70.0	50.2	28.3	22.6	19.1	18.4	14.2	12.7	12.0
67.5°	4578.6	1036.6	56.6	36.8	21.2	17.7	14.9	14.2	8.5	7.1	7.1
70°	3927.0	721.7	45.3	26.9	15.6	14.2	12.0	9.2	6.4	5.7	5.7
71°	3561.2	602.8	41.0	22.6	13.4	13.4	11.3	7.8	5.7	5.0	5.0
72.5°	2958.3	428.1	34.7	17.7	12.0	14.2	12.0	7.1	5.7	5.0	4.2
75°	1717.3	179.0	24.1	12.0	9.2	17.0	15.6	6.4	4.2	3.5	3.5
77.5°	516.5	65.8	13.4	7.8	7.1	14.9	17.7	5.7	2.1	0.7	0.7
80°	94.1	28.3	8.5	5.0	5.0	9.2	13.4	2.8	0.0	0.0	0.0
82.5°	33.3	14.2	5.0	2.8	2.1	4.2	6.4	0.0	0.0	0.0	0.0
85°	19.1	9.9	2.8	1.4	0.0	0.7	1.4	0.0	0.0	0.0	0.0
87.5°	12.7	2.8	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)