

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: P323647

Luminaire Tested: **GLEON-SA3C-827-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323647
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-SA3C-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1050mA 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: 13561 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G3

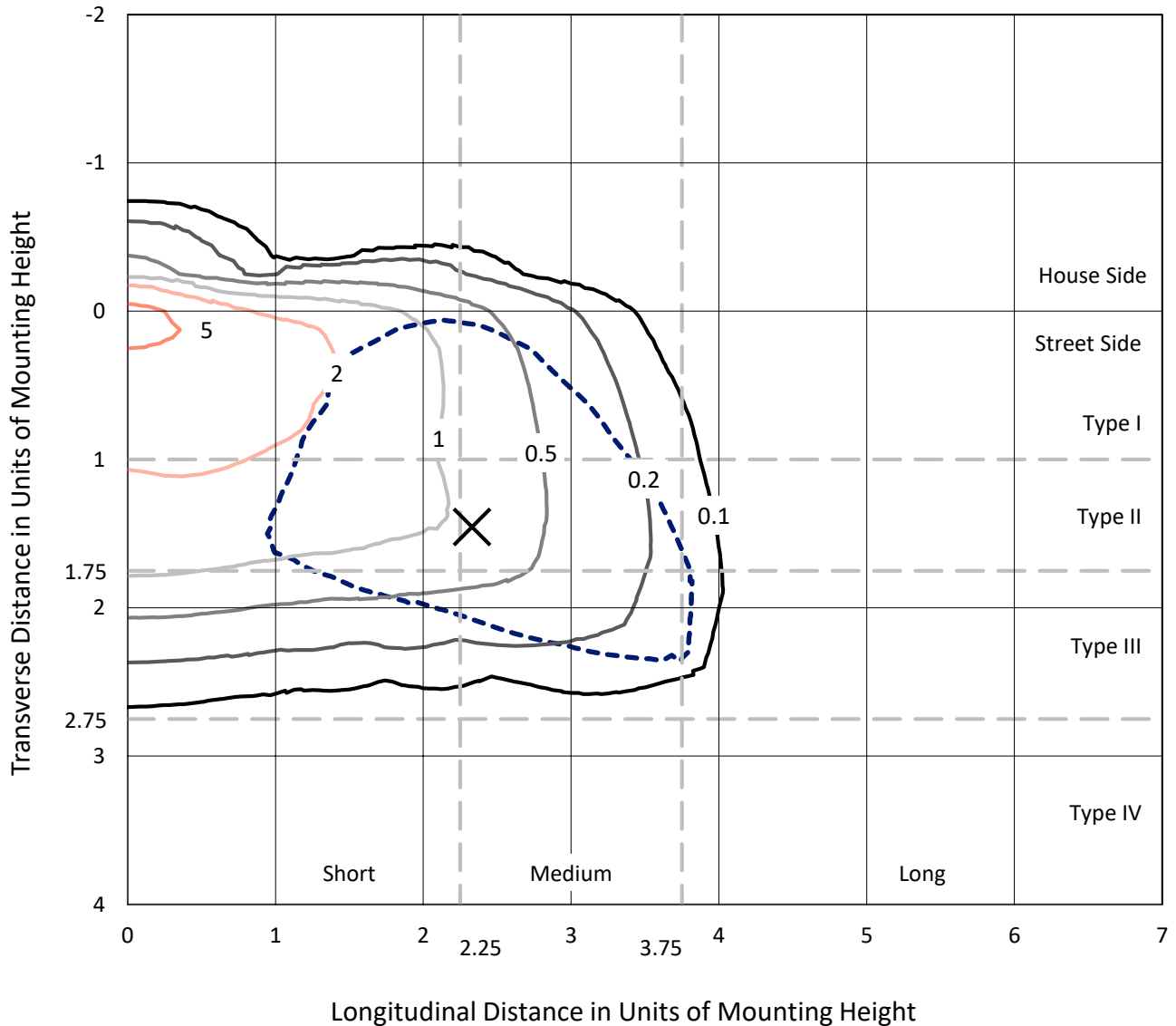
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

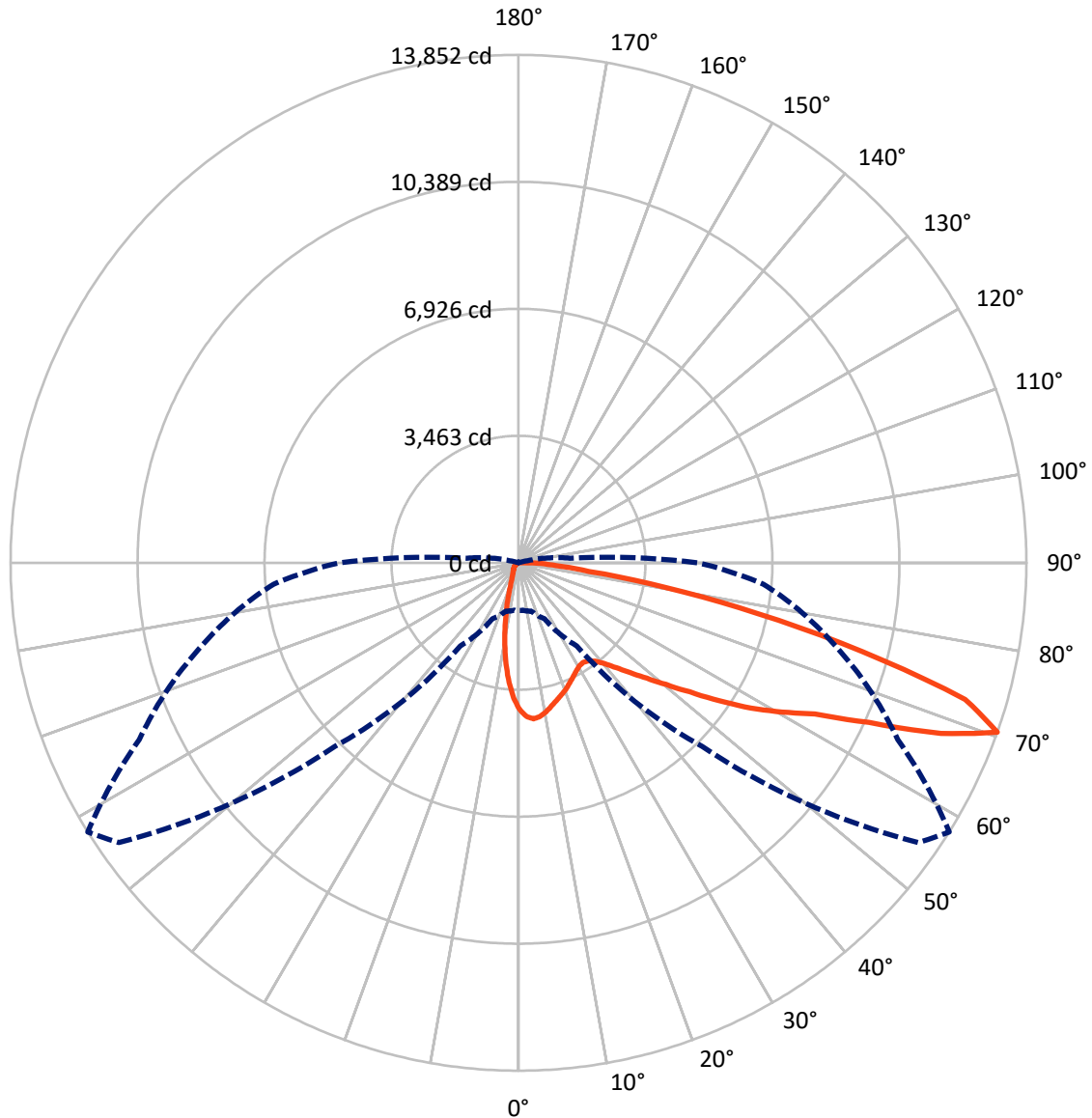
✕ Max cd
 - - - 1/2 Max cd



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

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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	1160.5	0.0	1160.5
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	12400.5	0.0	12400.5
	% Fixture	91.4	0.0	91.4
Total	Lumens	13561.0	0.0	13561.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.6	2.4
10°-20°	687.5	5.1
20°-30°	903.8	6.7
30°-40°	1197.0	8.8
40°-50°	1789.2	13.2
50°-60°	2866.2	21.1
60°-70°	3612.8	26.6
70°-80°	1948.7	14.4
80°-90°	228.1	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°	13561.0	100.0
0°-180°	13561.0	100.0

Coefficient of Utilization

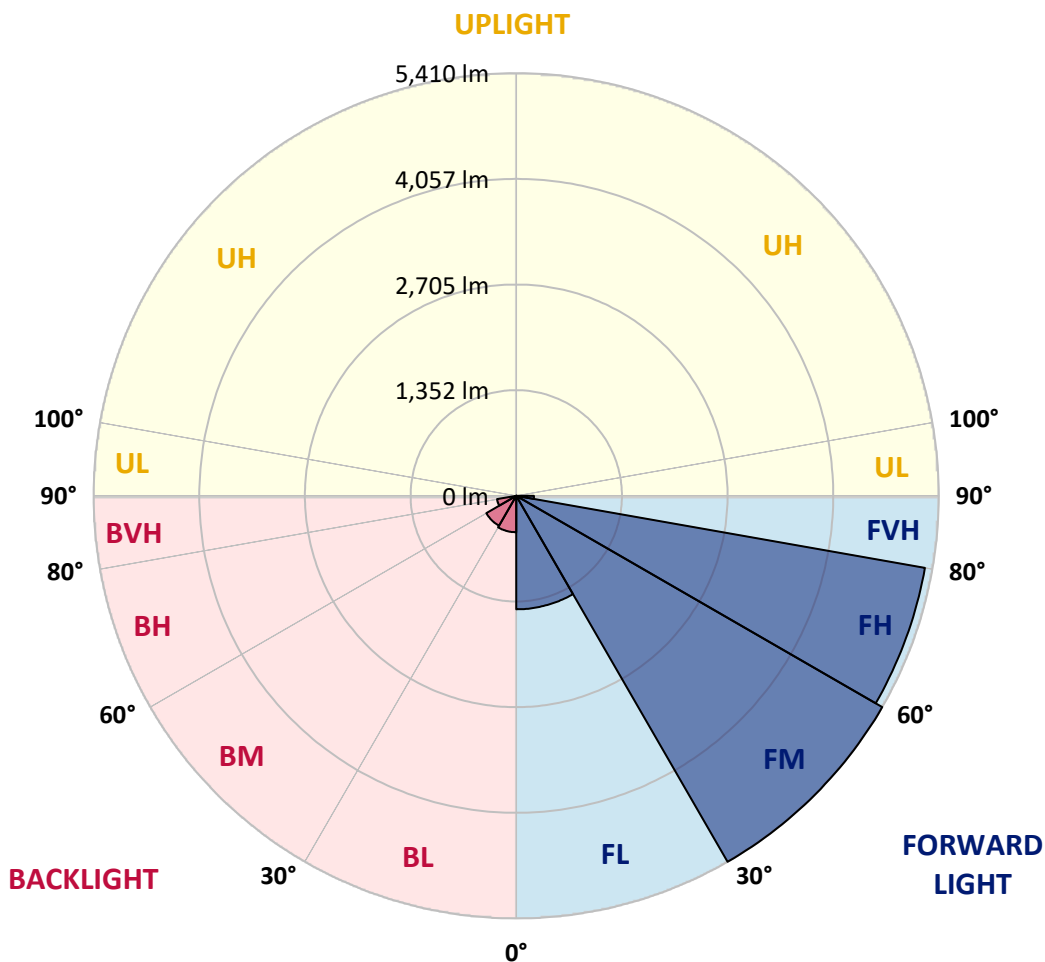


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1452.7	10.7			
FM (30°-60°)	5409.7	39.9			
FH (60°-80°)	5312.0	39.2			G3/7500
FVH (80°-90°)	226.1	1.7			G3/500
BL (0°-30°)	466.3	3.4	B1/500		
BM (30°-60°)	442.7	3.3	B1/1000		
BH (60°-80°)	249.6	1.8	B1/500		G1/500
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: B1-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4005.9	4005.9	4005.9	4005.9	4005.9	4005.9	4005.9	4005.9	4005.9	4005.9	4005.9
2.5°	4338.0	4327.3	4323.3	4316.6	4290.6	4265.2	4215.1	4201.0	4169.4	4094.4	4014.9
5°	4341.4	4340.8	4352.6	4349.8	4340.8	4329.0	4292.9	4274.3	4220.7	4113.6	3968.1
7.5°	4132.2	4142.9	4169.4	4190.8	4215.6	4247.8	4252.3	4234.2	4190.2	4074.6	3881.8
10°	3851.4	3868.3	3905.5	3947.8	4012.6	4076.9	4134.4	4132.2	4116.9	4003.0	3778.0
12.5°	3570.0	3589.7	3632.6	3695.2	3787.1	3891.9	3994.6	4008.7	4034.0	3938.8	3682.2
15°	3323.6	3340.5	3382.8	3459.4	3573.4	3714.3	3864.9	3890.8	3956.2	3888.6	3602.1
17.5°	3114.3	3125.1	3156.1	3241.2	3373.2	3544.0	3739.7	3790.5	3888.0	3849.1	3532.8
20°	2968.3	2970.0	2990.3	3050.1	3182.0	3373.2	3610.0	3682.7	3815.8	3815.3	3461.1
22.5°	2896.1	2890.5	2894.4	2928.8	3025.8	3210.2	3480.3	3566.6	3751.0	3786.5	3388.4
25°	2882.6	2878.1	2866.8	2871.3	2930.0	3067.5	3349.5	3449.3	3694.0	3769.0	3325.2
27.5°	2924.9	2929.4	2910.2	2889.9	2894.4	2975.1	3233.3	3348.9	3647.8	3769.0	3280.7
30°	3010.0	3012.3	2998.2	2971.7	2936.2	2949.1	3152.7	3268.3	3624.7	3795.0	3252.5
32.5°	3104.2	3116.6	3114.9	3093.5	3042.7	2990.3	3133.5	3239.0	3623.0	3852.5	3249.7
35°	3220.9	3235.0	3258.7	3254.2	3201.2	3114.9	3198.9	3281.8	3656.2	3947.2	3280.1
37.5°	3345.0	3366.4	3417.2	3441.4	3407.0	3309.5	3345.5	3404.8	3745.3	4100.6	3357.4
40°	3465.1	3489.3	3581.8	3677.1	3651.2	3550.8	3567.7	3615.1	3903.8	4321.1	3504.0
42.5°	3582.9	3619.0	3754.9	3911.7	3942.7	3862.6	3871.7	3909.4	4138.9	4624.4	3743.6
45°	3723.9	3764.5	3965.8	4159.2	4242.1	4207.2	4245.5	4270.3	4446.3	5025.4	4066.8
47.5°	3930.9	3977.7	4224.6	4445.1	4590.6	4613.2	4690.4	4706.8	4834.8	5492.3	4488.0
50°	4334.6	4347.6	4570.9	4771.1	4980.8	5116.1	5204.1	5216.5	5305.1	6002.6	5014.1
52.5°	4842.7	4851.1	4977.4	5111.6	5350.2	5626.5	5832.3	5849.8	5868.4	6499.9	5533.4
55°	5347.3	5346.2	5429.7	5508.6	5781.5	6183.0	6629.6	6640.3	6506.7	6971.9	5930.4
57.5°	5662.6	5693.0	5819.9	5921.4	6302.6	6817.4	7437.1	7476.6	7177.2	7321.5	6322.9
60°	5562.2	5576.8	5858.2	6233.8	6951.6	7719.1	8254.2	8264.3	7681.3	7670.6	6819.1
62.5°	4738.9	4746.8	5188.9	5963.1	7280.3	8888.6	9239.9	9074.6	8260.9	8154.9	7412.9
65°	3248.0	3299.3	3668.7	4625.6	6676.4	9622.2	10765.7	10492.3	9144.6	8853.0	7949.7
67.5°	1912.7	1902.0	2084.7	2789.6	4903.6	9135.0	12695.9	12424.1	10349.6	9320.5	7792.4
70°	1306.5	1299.2	1369.1	1688.8	2768.1	7086.4	13303.2	13851.9	11413.6	9005.8	6706.3
72.5°	932.7	936.6	1039.8	1312.2	1737.9	4128.8	11440.1	12738.8	11080.4	7851.0	5097.5
75°	633.2	644.0	791.7	1076.5	1523.6	2100.5	8118.3	9683.6	9022.8	5706.0	2930.0
77.5°	340.6	352.4	526.7	867.3	1377.6	1459.3	5222.2	6664.6	5667.6	2565.1	849.2
80°	142.1	148.9	246.4	630.4	1190.4	1281.7	3072.6	4041.4	2415.1	505.8	189.5
82.5°	61.5	64.8	102.6	376.1	889.8	1082.1	1626.8	1944.3	731.9	111.1	95.3
85°	11.8	12.4	42.3	199.1	567.8	610.7	1054.5	1033.6	328.7	47.9	69.4
87.5°	0.0	0.0	10.1	62.6	166.9	332.7	643.4	635.5	111.6	23.1	25.9
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°	4005.9	4005.9	4005.9	4005.9	4005.9	4005.9	4005.9	4005.9	4005.9	4005.9	4005.9
2.5°	3974.3	3935.4	3853.6	3752.7	3675.4	3590.3	3522.6	3436.9	3399.7	3401.4	3381.1
5°	3885.2	3805.1	3624.1	3395.7	3219.8	3038.2	2882.0	2726.4	2634.5	2604.6	2576.4
7.5°	3757.7	3630.9	3342.2	2990.3	2692.6	2401.6	2148.4	1925.7	1784.7	1715.9	1690.5
10°	3614.0	3435.8	3017.9	2554.4	2129.2	1735.6	1407.5	1122.1	1008.2	931.0	911.2
12.5°	3487.6	3246.3	2701.0	2107.2	1602.6	1127.8	814.8	637.2	559.9	529.5	524.4
15°	3368.7	3069.2	2396.0	1702.4	1109.7	694.1	518.2	457.9	439.8	434.8	434.8
17.5°	3256.4	2900.6	2097.7	1303.7	734.2	486.6	429.1	415.6	409.9	409.4	409.9
20°	3139.2	2732.0	1804.4	955.2	512.6	412.2	396.4	389.1	387.4	387.4	387.4
22.5°	3026.9	2563.4	1519.1	682.3	411.1	376.1	368.2	363.1	361.5	360.9	359.8
25°	2919.2	2403.3	1240.6	482.1	360.9	344.5	337.8	331.0	325.9	323.1	321.4
27.5°	2830.7	2260.6	981.2	386.8	325.9	311.8	303.4	293.2	280.8	275.2	272.9
30°	2760.2	2130.4	756.2	326.5	293.2	279.1	266.2	248.7	230.6	221.0	220.5
32.5°	2705.0	2002.4	574.0	288.7	263.9	246.4	227.8	205.8	185.0	174.2	173.7
35°	2677.9	1889.6	438.7	261.1	238.0	216.0	192.8	168.6	148.3	138.2	137.0
37.5°	2695.9	1794.3	342.3	238.0	216.0	190.6	163.5	138.2	120.1	111.1	110.5
40°	2761.9	1733.4	278.0	218.2	197.4	166.3	137.0	113.3	98.1	90.8	90.2
42.5°	2902.3	1710.8	237.4	201.9	179.3	143.8	113.9	93.6	79.5	74.4	73.3
45°	3136.9	1744.1	209.8	186.1	160.7	122.4	94.2	76.7	64.3	60.3	59.8
47.5°	3449.3	1831.5	190.0	170.9	143.8	103.2	78.4	62.0	52.4	48.5	47.9
50°	3851.9	1970.2	173.7	155.6	128.0	87.4	64.8	49.1	40.6	37.8	37.8
52.5°	4290.1	2135.4	159.0	141.5	112.2	72.7	52.4	37.8	32.1	28.8	28.8
55°	4652.1	2279.8	143.2	130.8	93.0	60.3	40.0	28.8	23.7	22.0	22.0
57.5°	5013.5	2433.7	125.2	112.2	74.4	49.1	30.4	21.4	17.5	16.4	16.4
60°	5482.1	2622.1	107.7	91.3	58.6	37.2	22.6	15.2	13.0	12.4	12.4
62.5°	5997.5	2732.6	91.9	73.3	45.7	27.6	16.4	10.1	9.6	9.6	9.0
65°	6312.7	2576.4	77.3	58.6	35.5	20.9	10.7	7.3	8.5	7.9	6.8
67.5°	5910.7	2017.0	63.2	45.7	27.6	15.8	6.8	5.1	9.0	7.3	5.6
70°	4894.0	1412.0	49.1	32.1	22.0	13.5	4.5	3.4	9.6	7.3	4.5
72.5°	3662.4	945.1	38.9	21.4	16.4	11.8	3.9	1.7	8.5	6.2	3.9
75°	2001.2	380.6	31.0	13.5	10.1	8.5	2.8	1.1	5.6	4.5	2.8
77.5°	526.7	100.4	22.6	9.0	5.6	3.4	1.7	0.6	2.8	2.3	1.1
80°	134.2	38.9	14.7	6.2	3.9	1.7	0.0	0.0	0.6	0.0	0.0
82.5°	71.6	16.4	9.0	4.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	54.1	10.7	5.1	2.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.9	3.4	1.7	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)