

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: P383054

Luminaire Tested: **GLEON-SA4A-735-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383054
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-SA4A-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 615mA 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: 14960.7 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

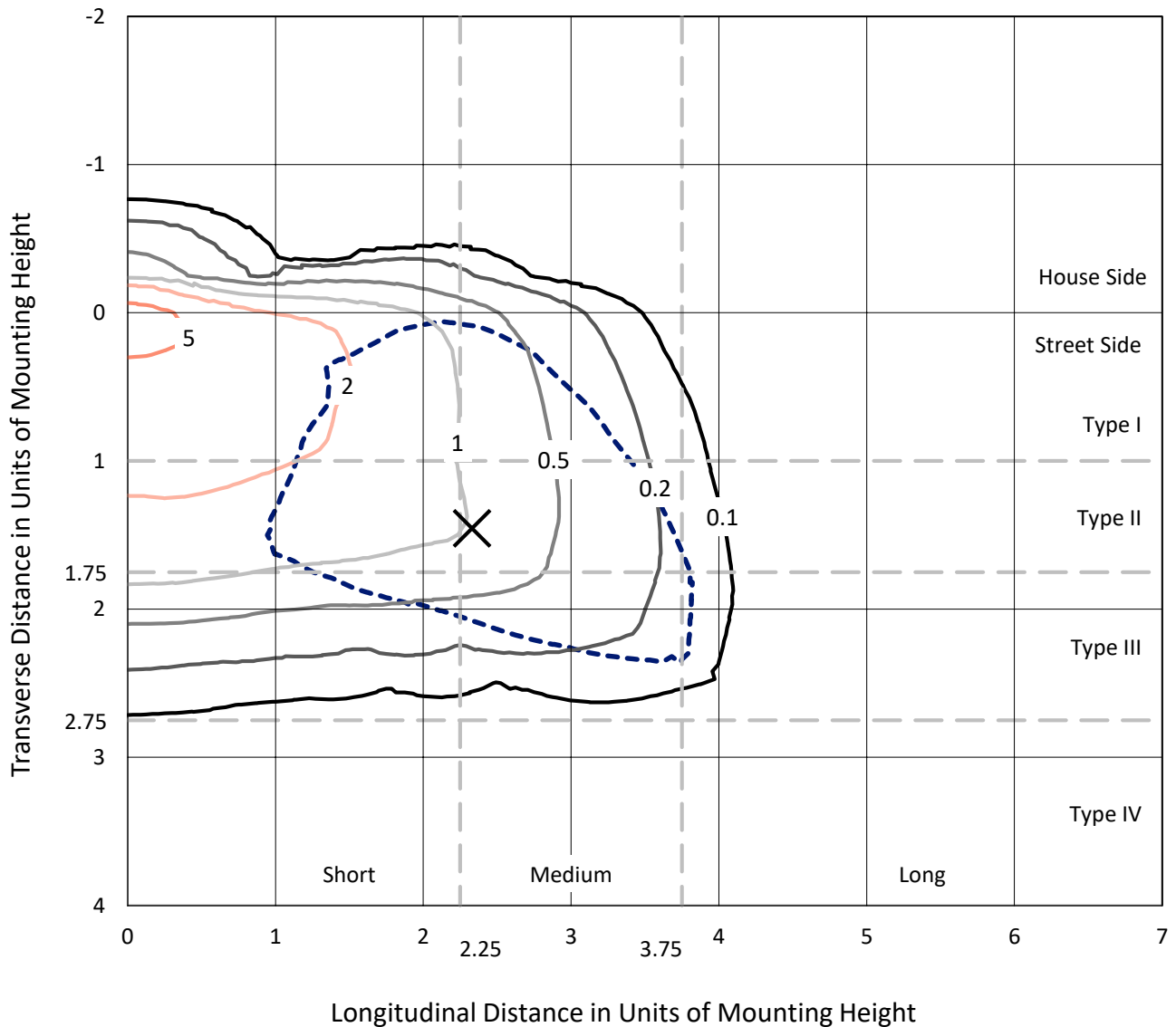
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

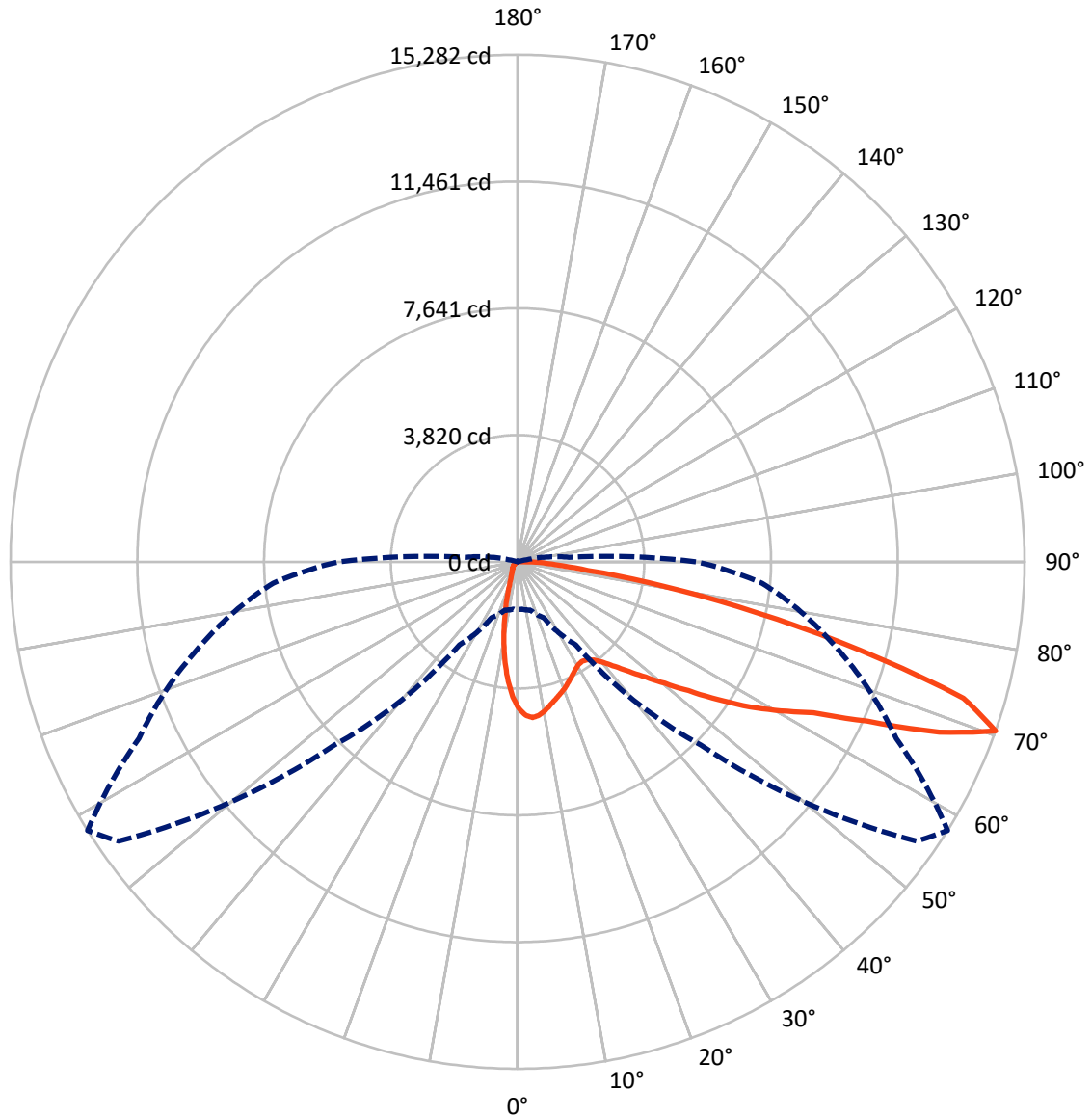
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	1280.3	0.0	1280.3
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	13680.4	0.0	13680.4
	% Fixture	91.4	0.0	91.4
Total	Lumens	14960.7	0.0	14960.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.4	2.4
10°-20°	758.5	5.1
20°-30°	997.1	6.7
30°-40°	1320.6	8.8
40°-50°	1973.8	13.2
50°-60°	3162.0	21.1
60°-70°	3985.7	26.6
70°-80°	2149.9	14.4
80°-90°	251.7	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°	14960.7	100.0
0°-180°	14960.7	100.0

Coefficient of Utilization



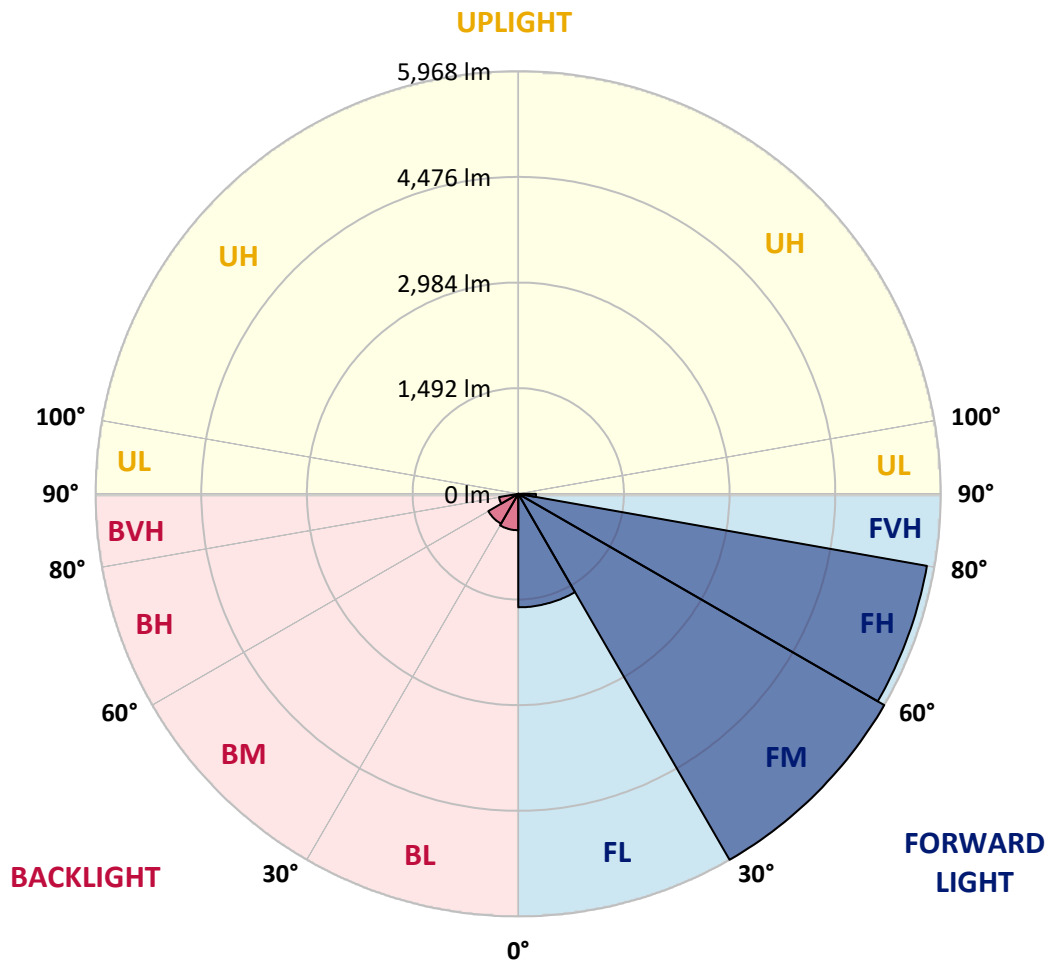
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1602.6	10.7			
FM (30°-60°)	5968.0	39.9			
FH (60°-80°)	5860.2	39.2			G3/7500
FVH (80°-90°)	249.5	1.7			G3/500
BL (0°-30°)	514.4	3.4	B2/1000		
BM (30°-60°)	488.4	3.3	B1/1000		
BH (60°-80°)	275.3	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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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4419.3	4419.3	4419.3	4419.3	4419.3	4419.3	4419.3	4419.3	4419.3	4419.3	4419.3
2.5°	4785.7	4773.9	4769.5	4762.1	4733.5	4705.4	4650.1	4634.5	4599.7	4517.0	4429.2
5°	4789.5	4788.8	4801.8	4798.8	4788.8	4775.8	4736.0	4715.4	4656.3	4538.1	4377.6
7.5°	4558.6	4570.5	4599.7	4623.4	4650.8	4686.2	4691.2	4671.2	4622.7	4495.2	4282.4
10°	4248.9	4267.5	4308.6	4355.3	4426.8	4497.7	4561.1	4558.6	4541.9	4416.2	4168.0
12.5°	3938.4	3960.2	4007.5	4076.5	4177.9	4293.7	4406.9	4422.4	4450.4	4345.3	4062.2
15°	3666.6	3685.2	3731.9	3816.6	3942.1	4097.7	4263.8	4292.4	4364.6	4289.9	3973.9
17.5°	3435.8	3447.6	3481.8	3575.7	3721.3	3909.8	4125.6	4181.6	4289.3	4246.4	3897.4
20°	3274.7	3276.5	3298.9	3364.8	3510.4	3721.3	3982.6	4062.9	4209.7	4209.0	3818.4
22.5°	3195.0	3188.8	3193.2	3231.2	3338.1	3541.6	3839.6	3934.7	4138.1	4177.3	3738.1
25°	3180.1	3175.1	3162.7	3167.6	3232.4	3384.1	3695.2	3805.3	4075.3	4158.1	3668.4
27.5°	3226.8	3231.7	3210.6	3188.2	3193.2	3282.1	3567.1	3694.6	4024.3	4158.1	3619.3
30°	3320.7	3323.2	3307.6	3278.4	3239.2	3253.5	3478.1	3605.6	3998.8	4186.7	3588.2
32.5°	3424.6	3438.2	3436.4	3412.7	3356.7	3298.9	3457.0	3573.2	3996.9	4250.1	3585.1
35°	3553.4	3568.9	3595.0	3590.1	3531.6	3436.4	3529.1	3620.6	4033.6	4354.6	3618.7
37.5°	3690.2	3713.9	3769.9	3796.6	3758.6	3651.0	3690.9	3756.2	4131.9	4523.8	3703.9
40°	3822.7	3849.4	3951.5	4056.6	4028.0	3917.3	3936.0	3988.2	4306.7	4767.0	3865.6
42.5°	3952.7	3992.5	4142.5	4315.4	4349.7	4261.3	4271.2	4313.0	4566.1	5101.7	4130.0
45°	4108.2	4153.0	4375.1	4588.5	4680.0	4641.4	4683.7	4711.0	4905.2	5544.0	4486.5
47.5°	4336.5	4388.2	4660.7	4903.9	5064.5	5089.3	5174.6	5192.5	5333.8	6059.2	4951.2
50°	4782.0	4796.3	5042.7	5263.5	5494.9	5644.2	5741.2	5754.9	5852.6	6622.1	5531.6
52.5°	5342.5	5351.8	5491.2	5639.2	5902.4	6207.2	6434.3	6453.6	6474.1	7170.8	6104.5
55°	5899.2	5898.0	5990.0	6077.1	6378.2	6821.2	7313.9	7325.7	7178.2	7691.5	6542.4
57.5°	6247.0	6280.6	6420.6	6532.6	6953.1	7521.0	8204.7	8248.3	7918.0	8077.2	6975.4
60°	6136.3	6152.4	6462.9	6877.2	7669.1	8515.7	9106.1	9117.3	8474.1	8462.3	7522.9
62.5°	5228.0	5236.7	5724.5	6578.6	8031.8	9805.9	10193.6	10011.2	9113.6	8996.6	8178.0
65°	3583.2	3639.8	4047.3	5103.0	7365.5	10615.3	11876.9	11575.1	10088.4	9766.8	8770.1
67.5°	2110.1	2098.3	2299.9	3077.5	5409.7	10077.9	14006.3	13706.4	11417.8	10282.5	8596.6
70°	1441.4	1433.3	1510.4	1863.2	3053.8	7817.7	14676.3	15281.6	12591.6	9935.3	7398.4
72.5°	1028.9	1033.3	1147.1	1447.6	1917.3	4554.9	12620.9	14053.6	12224.0	8661.3	5623.7
75°	698.6	710.4	873.4	1187.5	1680.9	2317.3	8956.2	10683.1	9954.1	6294.9	3232.4
77.5°	375.8	388.8	581.0	956.8	1519.7	1610.0	5761.2	7352.4	6252.6	2829.9	936.9
80°	156.8	164.2	271.8	695.5	1313.2	1414.0	3389.7	4458.5	2664.4	558.0	209.0
82.5°	67.8	71.5	113.2	414.9	981.7	1193.8	1794.7	2145.0	807.5	122.6	105.2
85°	13.0	13.7	46.7	219.6	626.5	673.7	1163.3	1140.3	362.7	52.9	76.5
87.5°	0.0	0.0	11.2	69.0	184.2	367.0	709.8	701.1	123.2	25.5	28.6
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°	4419.3	4419.3	4419.3	4419.3	4419.3	4419.3	4419.3	4419.3	4419.3	4419.3	4419.3
2.5°	4384.5	4341.6	4251.3	4140.0	4054.7	3960.8	3886.1	3791.6	3750.6	3752.5	3730.0
5°	4286.1	4197.8	3998.1	3746.2	3552.1	3351.8	3179.5	3007.8	2906.4	2873.5	2842.3
7.5°	4145.6	4005.7	3687.1	3298.9	2970.4	2649.5	2370.1	2124.4	1968.9	1893.0	1865.1
10°	3986.9	3790.4	3329.4	2818.0	2349.0	1914.8	1552.7	1237.9	1112.3	1027.0	1005.3
12.5°	3847.6	3581.3	2979.8	2324.8	1768.0	1244.2	898.9	702.9	617.7	584.2	578.6
15°	3716.3	3386.0	2643.3	1878.1	1224.2	765.8	571.7	505.2	485.2	479.7	479.7
17.5°	3592.5	3200.1	2314.2	1438.3	810.0	536.9	473.4	458.5	452.3	451.6	452.3
20°	3463.1	3014.0	1990.7	1053.9	565.4	454.8	437.4	429.3	427.4	427.4	427.4
22.5°	3339.3	2828.0	1675.9	752.7	453.5	414.9	406.2	400.7	398.8	398.1	396.9
25°	3220.5	2651.4	1368.6	531.9	398.1	380.1	372.6	365.2	359.6	356.4	354.5
27.5°	3122.9	2493.9	1082.5	426.7	359.6	344.0	334.7	323.5	309.8	303.6	301.1
30°	3045.1	2350.2	834.2	360.2	323.5	308.0	293.6	274.3	254.4	243.9	243.2
32.5°	2984.1	2209.1	633.3	318.5	291.1	271.8	251.3	227.0	204.0	192.3	191.6
35°	2954.3	2084.6	483.9	288.0	262.5	238.3	212.8	186.0	163.6	152.4	151.2
37.5°	2974.2	1979.4	377.6	262.5	238.3	210.3	180.4	152.4	132.5	122.6	121.9
40°	3047.0	1912.3	306.7	240.7	217.7	183.5	151.2	125.0	108.2	100.1	99.5
42.5°	3201.9	1887.4	261.9	222.7	197.9	158.6	125.7	103.3	87.8	82.1	80.9
45°	3460.7	1924.1	231.4	205.3	177.3	135.0	103.9	84.6	70.9	66.6	66.0
47.5°	3805.3	2020.5	209.6	188.5	158.6	113.8	86.4	68.5	57.8	53.5	52.9
50°	4249.4	2173.6	191.6	171.7	141.2	96.4	71.5	54.1	44.8	41.6	41.6
52.5°	4732.8	2355.9	175.4	156.1	123.8	80.2	57.8	41.6	35.5	31.8	31.8
55°	5132.2	2515.1	158.0	144.3	102.7	66.6	44.2	31.8	26.1	24.2	24.2
57.5°	5531.0	2684.9	138.1	123.8	82.1	54.1	33.6	23.7	19.3	18.1	18.1
60°	6047.9	2892.7	118.8	100.8	64.7	41.1	24.9	16.8	14.3	13.7	13.7
62.5°	6616.5	3014.7	101.4	80.9	50.4	30.5	18.1	11.2	10.6	10.6	10.0
65°	6964.2	2842.3	85.2	64.7	39.2	23.0	11.8	8.1	9.3	8.7	7.5
67.5°	6520.7	2225.2	69.7	50.4	30.5	17.4	7.5	5.6	10.0	8.1	6.2
70°	5399.1	1557.7	54.1	35.5	24.2	14.9	4.9	3.7	10.6	8.1	4.9
72.5°	4040.5	1042.6	42.9	23.7	18.1	13.0	4.4	1.9	9.3	6.8	4.4
75°	2207.8	419.9	34.2	14.9	11.2	9.3	3.1	1.2	6.2	4.9	3.1
77.5°	581.0	110.8	24.9	10.0	6.2	3.7	1.9	0.7	3.1	2.5	1.2
80°	148.0	42.9	16.2	6.8	4.4	1.9	0.0	0.0	0.7	0.0	0.0
82.5°	79.0	18.1	10.0	4.9	2.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	59.7	11.8	5.6	3.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.0	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)