

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: P382996

Luminaire Tested: **GLEON-SA3C-735-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382996
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3C-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16660.7 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

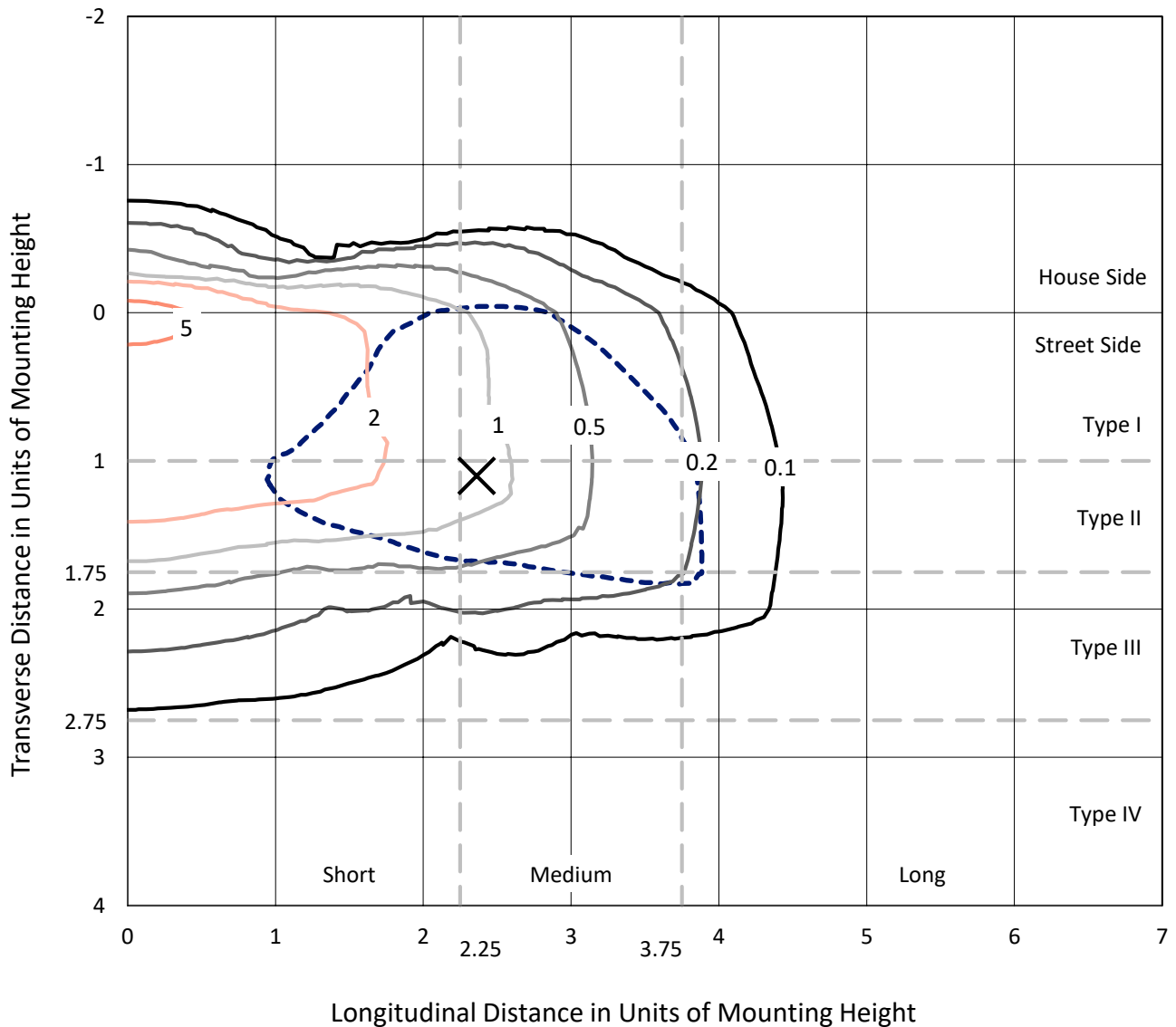
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

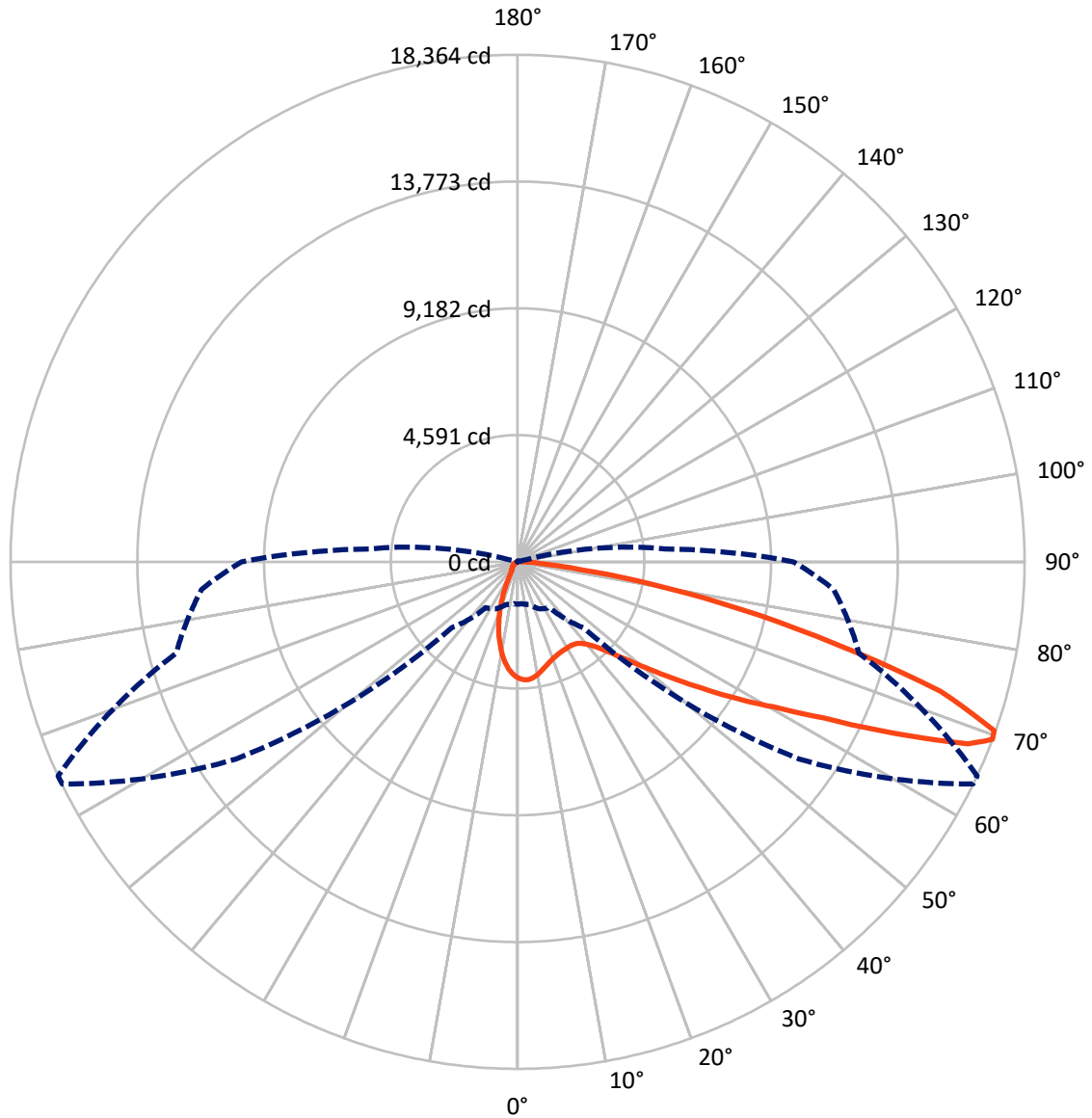
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1963.9	0.0	1963.9
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	14696.8	0.0	14696.8
	% Fixture	88.2	0.0	88.2
Total	Lumens	16660.7	0.0	16660.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.1	2.1
10°-20°	770.7	4.6
20°-30°	1067.4	6.4
30°-40°	1488.3	8.9
40°-50°	2313.3	13.9
50°-60°	3713.8	22.3
60°-70°	4200.9	25.2
70°-80°	2467.2	14.8
80°-90°	287.0	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°	16660.7	100.0
0°-180°	16660.7	100.0

Coefficient of Utilization

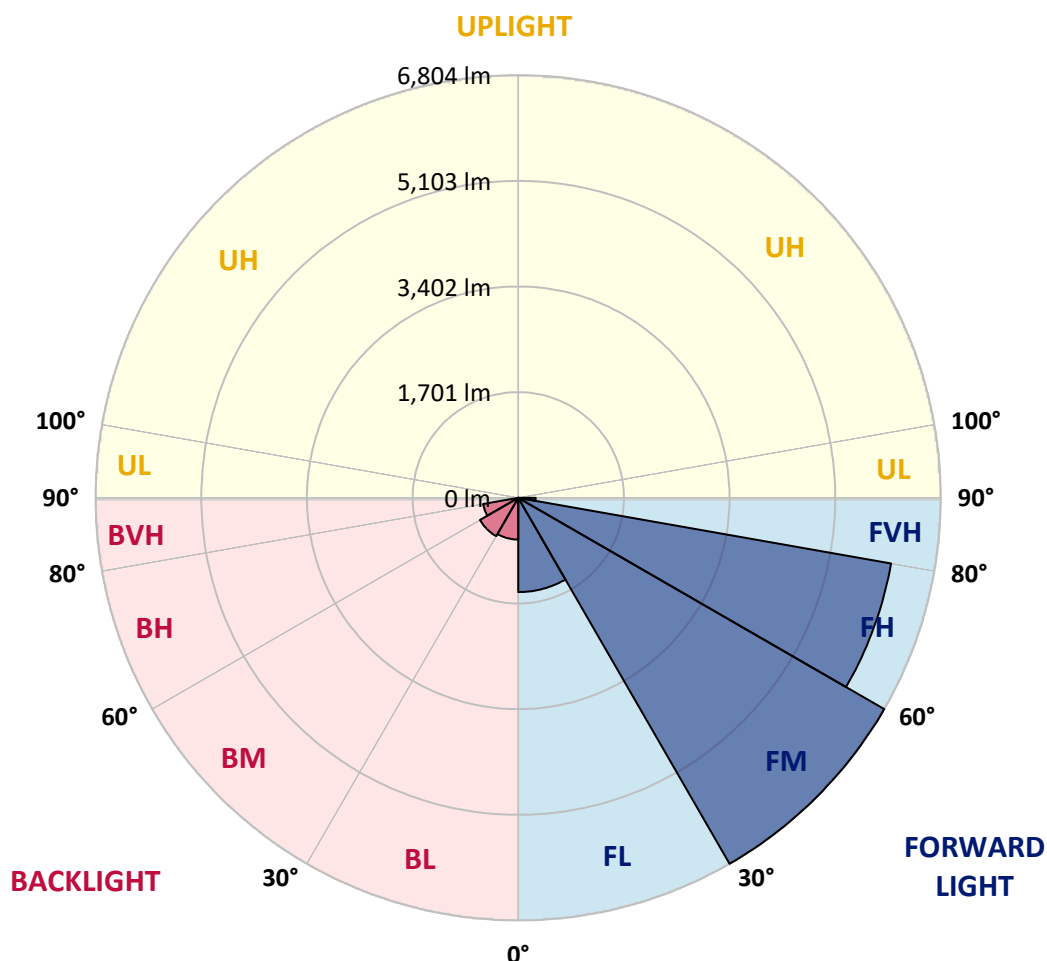


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1518.2	9.1			
FM (30°-60°)	6803.8	40.8			
FH (60°-80°)	6094.3	36.6			G3/7500
FVH (80°-90°)	280.5	1.7			G3/500
BL (0°-30°)	672.0	4.0	B2/1000		
BM (30°-60°)	711.7	4.3	B1/1000		
BH (60°-80°)	573.8	3.4	B2/1000		G2/1000
BVH (80°-90°)	6.5	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°	64°	65°	75°	85°
0°	4210.2	4210.2	4210.2	4210.2	4210.2	4210.2	4210.2	4210.2	4210.2	4210.2	4210.2
2.5°	4247.6	4237.0	4245.4	4263.8	4272.9	4272.9	4280.0	4271.5	4274.3	4253.9	4224.3
5°	3981.8	3965.6	3988.8	4040.3	4103.7	4158.1	4238.4	4280.7	4284.9	4285.6	4251.1
7.5°	3695.5	3680.7	3715.3	3775.9	3857.7	3958.5	4098.8	4221.5	4228.5	4294.8	4269.4
10°	3462.9	3452.3	3492.6	3557.4	3653.3	3766.1	3938.0	4108.7	4129.1	4275.8	4266.6
12.5°	3278.2	3269.7	3307.8	3382.5	3480.5	3605.3	3785.1	3983.2	4010.7	4232.8	4252.5
15°	3143.5	3142.1	3173.9	3245.8	3354.3	3470.7	3654.6	3866.9	3898.6	4186.2	4250.4
17.5°	3073.1	3075.1	3098.4	3159.7	3252.8	3368.5	3544.7	3768.9	3803.4	4144.6	4261.0
20°	3066.0	3068.1	3080.8	3115.4	3190.7	3293.0	3455.1	3686.4	3722.4	4113.6	4277.9
22.5°	3128.0	3126.6	3130.2	3126.6	3168.9	3246.4	3396.0	3623.0	3664.5	4093.1	4291.3
25°	3247.2	3245.0	3243.6	3217.6	3189.3	3231.0	3371.3	3587.0	3626.4	4078.4	4299.0
27.5°	3412.8	3411.4	3409.4	3366.3	3281.7	3255.7	3374.1	3573.6	3606.8	4066.4	4297.6
30°	3630.7	3640.6	3637.8	3577.8	3446.0	3331.0	3403.7	3566.5	3595.4	4043.1	4282.8
32.5°	3886.6	3906.4	3921.8	3857.7	3692.7	3480.5	3472.1	3574.3	3595.4	4025.5	4256.1
35°	4152.4	4177.8	4234.9	4212.3	3995.1	3705.4	3589.8	3620.8	3638.4	4035.4	4243.3
37.5°	4414.0	4444.2	4568.3	4633.9	4391.4	4003.0	3773.1	3735.7	3744.9	4095.3	4257.5
40°	4717.8	4763.7	4951.8	5057.6	4864.4	4401.3	4047.4	3933.2	3936.6	4227.1	4323.0
42.5°	5116.8	5164.0	5367.8	5533.5	5397.4	4904.6	4419.5	4234.9	4231.4	4473.9	4477.4
45°	5603.3	5652.6	5863.4	6047.4	5986.0	5501.1	4896.1	4675.5	4671.2	4863.1	4770.0
47.5°	6154.5	6203.2	6391.4	6581.1	6647.3	6197.6	5503.1	5276.8	5267.0	5403.7	5221.9
50°	6627.6	6659.4	6832.7	7088.0	7386.9	7053.4	6258.2	6040.3	6029.8	6122.1	5885.2
52.5°	6799.6	6818.0	6994.2	7351.6	8097.5	8212.4	7250.1	6969.6	6961.7	7002.0	6768.6
55°	6451.3	6484.5	6700.9	7231.0	8482.4	9522.3	8502.1	8120.0	8061.5	7974.8	7692.2
57.5°	5502.5	5555.3	5788.0	6493.0	8302.7	10561.4	10342.2	9421.5	9335.5	8805.4	8443.0
60°	4122.8	4187.7	4380.8	5141.5	7343.2	10931.5	12352.8	10871.6	10677.8	9466.6	9133.2
62.5°	2829.1	2861.5	2992.7	3488.3	5408.0	10325.3	14034.9	12813.9	12460.0	10185.7	9879.7
65°	2160.8	2172.1	2225.7	2396.2	3220.4	8387.3	14703.9	15376.5	14948.5	11045.7	10654.5
67.5°	1741.3	1732.1	1806.2	2050.1	2156.5	5116.8	13923.6	17800.9	17600.8	12195.6	11434.2
69°	1535.5	1522.8	1598.3	1881.6	2025.5	3382.5	12447.2	18351.6	18364.2	12802.6	11487.8
70°	1381.8	1390.2	1465.0	1781.5	1981.0	2655.0	11037.3	18211.3	18311.4	13029.6	11166.4
72.5°	922.8	945.4	1095.6	1479.1	1904.9	2009.3	6664.3	15627.5	16012.5	12518.5	9580.1
75°	520.3	537.2	715.5	1115.2	1794.9	1913.3	3520.0	11513.2	11885.4	10468.4	7387.5
77.5°	255.2	264.4	404.7	719.8	1500.9	1823.1	1996.5	7820.4	8245.6	6832.7	4178.5
80°	107.9	112.8	202.3	444.2	1073.0	1739.9	1482.6	4812.9	4865.8	2676.8	1113.2
82.5°	41.6	43.0	85.3	277.0	681.7	1356.4	1240.1	2282.0	2227.1	504.1	253.8
85°	4.9	5.7	31.0	166.4	379.3	697.9	1007.5	983.4	910.1	100.1	130.4
87.5°	0.0	0.0	2.1	50.8	112.8	327.2	523.8	408.2	368.0	32.4	67.7
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°	4210.2	4210.2	4210.2	4210.2	4210.2	4210.2	4210.2	4210.2	4210.2	4210.2	4210.2
2.5°	4199.6	4192.6	4154.5	4099.6	4047.4	3982.5	3920.4	3883.1	3853.4	3833.7	3857.0
5°	4210.9	4179.9	4064.2	3916.2	3771.0	3607.4	3455.1	3326.2	3275.4	3219.0	3244.4
7.5°	4207.3	4148.8	3940.9	3677.2	3410.8	3135.1	2874.2	2673.4	2569.0	2466.7	2492.8
10°	4189.7	4091.1	3775.9	3385.3	2986.4	2590.2	2220.0	1938.7	1781.5	1639.1	1659.6
12.5°	4151.0	4013.5	3581.3	3051.2	2517.5	1995.1	1561.6	1201.3	1008.1	922.8	933.4
15°	4127.7	3938.0	3375.5	2712.8	2017.0	1389.5	954.6	709.9	621.8	593.6	597.1
17.5°	4116.4	3865.5	3162.6	2325.8	1505.2	884.8	616.9	544.2	525.2	520.3	521.7
20°	4105.1	3792.1	2943.3	1942.9	1037.0	595.0	506.9	485.7	478.7	472.4	473.8
22.5°	4086.1	3721.6	2707.8	1555.2	699.3	482.9	456.8	436.4	421.6	413.8	415.3
25°	4062.9	3647.6	2467.5	1158.3	510.4	430.7	406.1	377.2	359.6	345.4	346.2
27.5°	4025.5	3556.6	2219.3	843.1	428.6	385.7	352.5	320.7	291.2	274.9	274.9
30°	3973.3	3453.7	1943.7	603.5	384.3	341.2	301.1	261.6	229.8	215.0	213.6
32.5°	3915.5	3346.6	1665.1	457.6	349.0	299.6	253.8	212.2	184.0	172.1	171.3
35°	3866.2	3231.0	1387.4	383.5	313.7	259.4	209.4	174.1	151.6	141.7	141.0
37.5°	3834.4	3115.4	1116.7	342.6	282.0	222.1	175.5	143.8	127.6	119.9	119.1
40°	3829.5	3029.3	869.2	311.6	252.4	188.9	146.6	121.9	107.1	98.7	98.0
42.5°	3893.7	2980.0	666.9	285.5	222.1	160.0	124.8	104.3	88.9	80.4	79.6
45°	4062.1	2995.5	513.2	262.2	191.7	135.4	105.7	86.7	72.6	66.2	64.8
47.5°	4369.5	3102.6	408.2	239.0	162.8	115.0	90.3	71.9	59.9	53.6	52.9
50°	4916.6	3354.3	341.2	213.6	136.1	98.0	74.7	58.5	48.6	43.0	42.3
52.5°	5642.8	3802.7	304.5	188.9	112.8	83.2	61.3	46.5	38.1	33.8	33.2
55°	6443.6	4345.6	280.6	162.2	92.3	69.1	48.6	36.7	29.6	26.1	24.7
57.5°	7225.5	4815.8	258.0	136.1	76.9	56.4	38.8	28.9	23.3	19.7	19.0
60°	7943.8	5248.0	232.0	109.3	62.8	44.4	30.3	22.5	18.4	14.8	14.8
62.5°	8713.0	5582.1	196.0	85.3	51.4	33.8	24.7	20.4	14.8	12.7	12.0
65°	9528.0	5830.3	153.7	66.2	40.1	25.3	20.4	21.1	12.0	9.1	8.5
67.5°	10130.0	5780.9	113.5	52.2	31.0	19.7	19.7	22.5	10.6	7.1	6.3
69°	9997.5	5379.8	95.2	45.1	26.8	17.0	18.4	22.5	9.9	6.3	5.7
70°	9613.2	4935.6	83.9	40.1	23.9	15.5	17.6	21.9	9.1	6.3	5.7
72.5°	8005.8	3717.4	65.6	30.3	19.0	12.7	14.8	19.0	9.1	6.3	4.9
75°	6022.0	2379.4	50.0	21.9	14.1	9.9	11.3	14.1	9.1	5.7	4.9
77.5°	3276.8	858.0	36.0	14.8	9.9	7.7	7.7	10.6	8.5	4.2	2.8
80°	842.5	215.7	22.5	9.9	7.7	5.7	4.9	7.1	4.9	0.7	0.0
82.5°	208.0	48.6	12.0	7.1	5.7	2.1	2.1	3.5	2.1	0.0	0.0
85°	114.2	23.9	7.7	4.9	2.8	0.0	0.0	0.7	0.0	0.0	0.0
87.5°	58.5	7.1	2.1	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)