

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: P383520

Luminaire Tested: **GLEON-SA8A-735-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383520
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8A-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25217 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

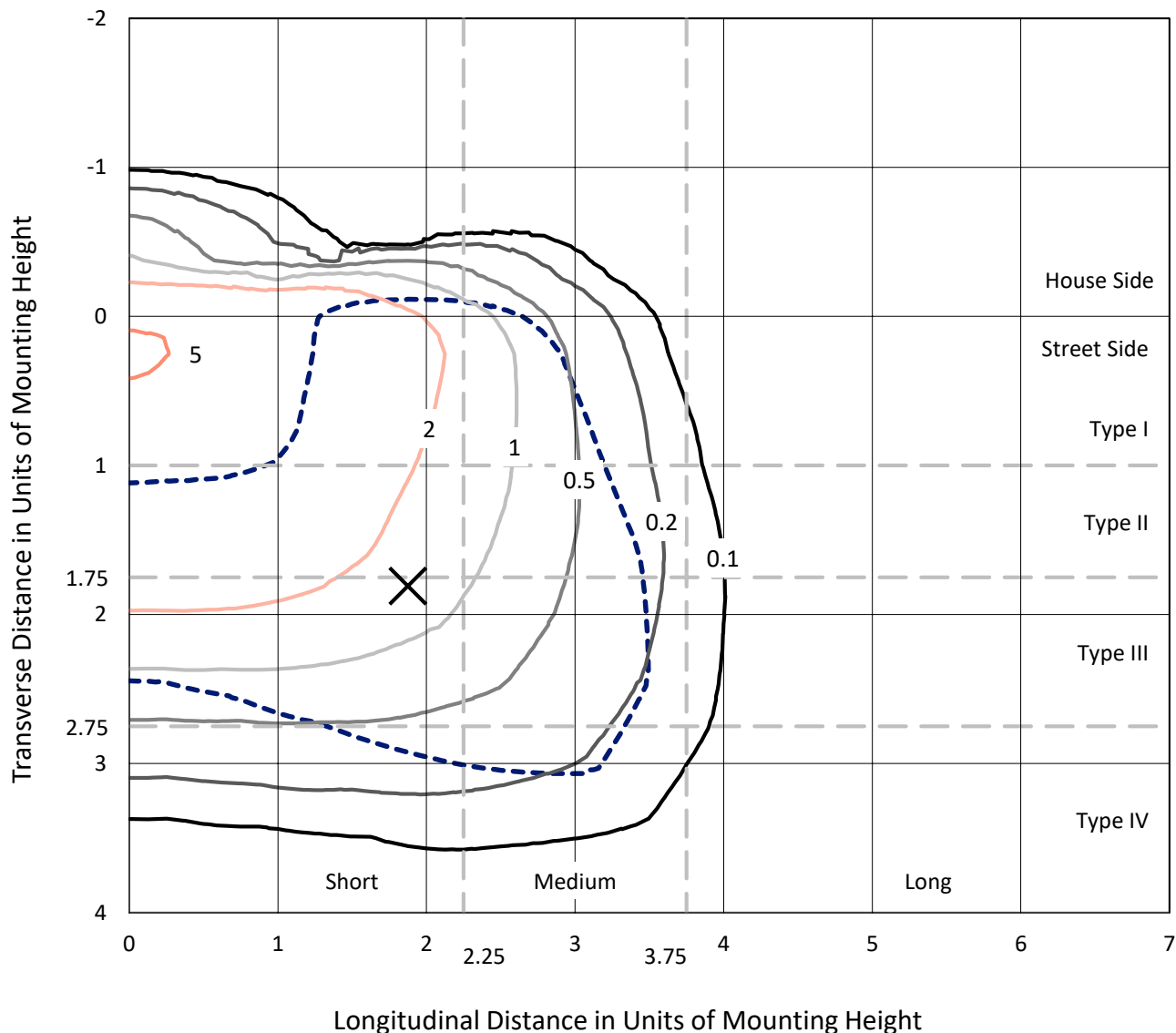
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

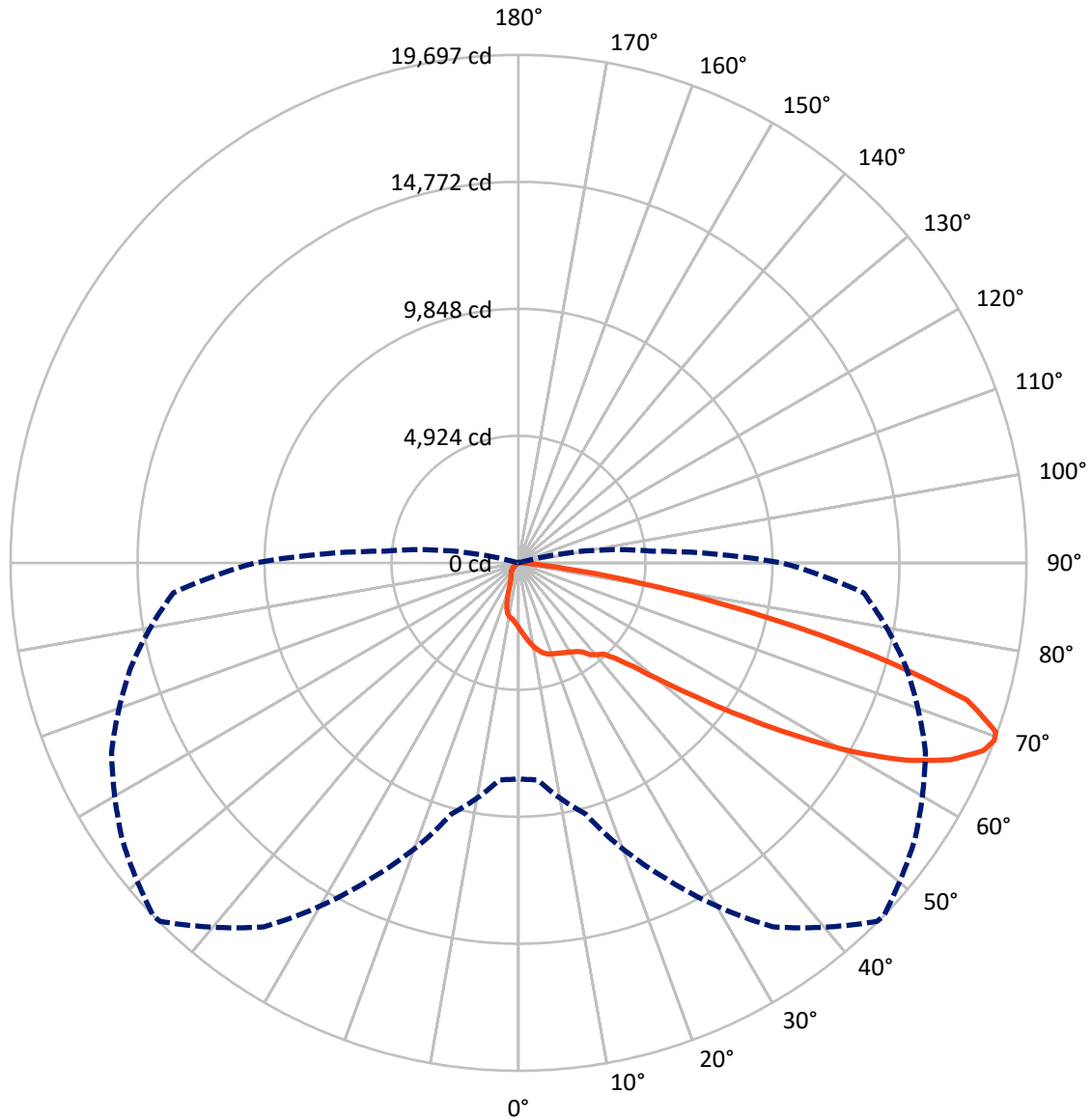
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2588.0	0.0	2588.0
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	22629.1	0.0	22629.1
	% Fixture	89.7	0.0	89.7
Total	Lumens	25217.0	0.0	25217.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.5	1.0
10°-20°	763.0	3.0
20°-30°	1199.9	4.8
30°-40°	1720.6	6.8
40°-50°	2973.9	11.8
50°-60°	5875.2	23.3
60°-70°	8211.1	32.6
70°-80°	3966.9	15.7
80°-90°	255.0	1.0
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°	25217.0	100.0
0°-180°	25217.0	100.0



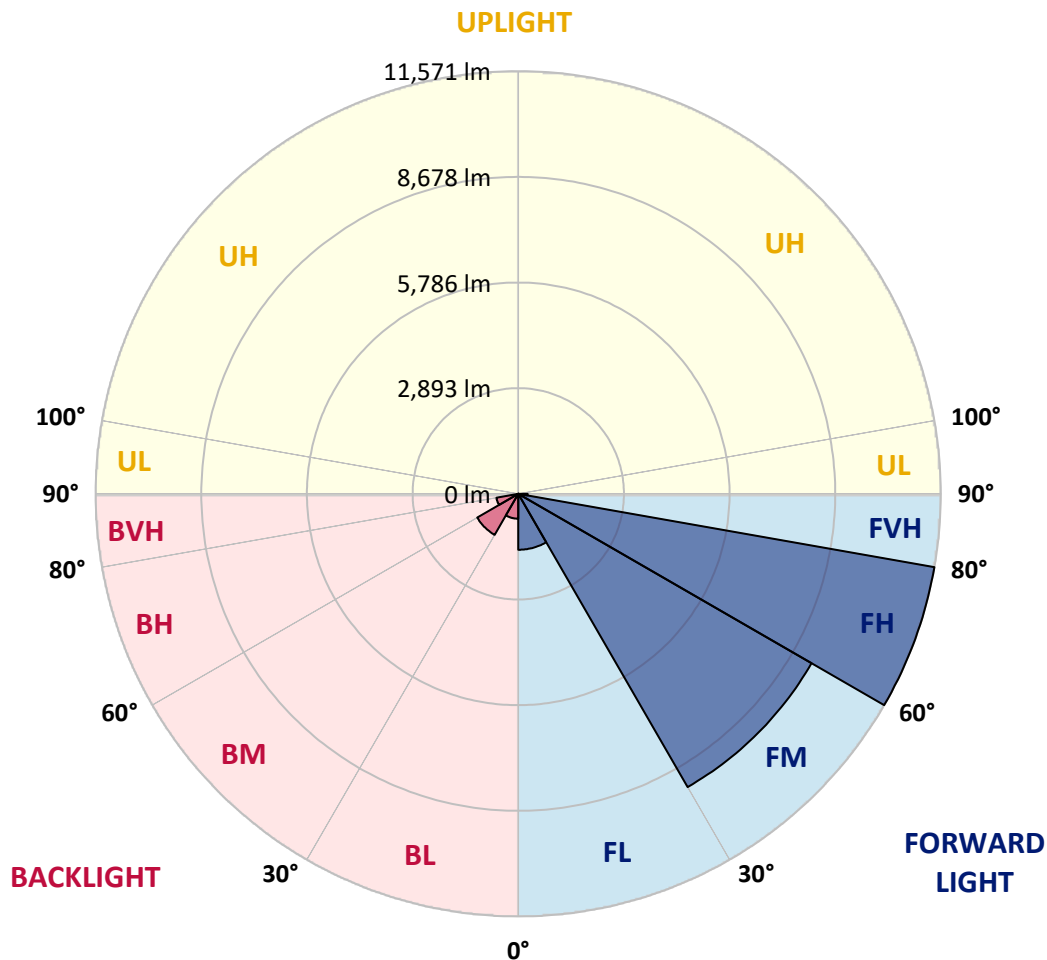
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1532.2	6.1			
FM	(30°-60°)	9272.8	36.8			
FH	(60°-80°)	11571.1	45.9			G4/12000
FVH	(80°-90°)	252.8	1.0			G3/500
BL	(0°-30°)	682.1	2.7	B2/1000		
BM	(30°-60°)	1296.9	5.1	B2/2500		
BH	(60°-80°)	606.8	2.4	B2/1000		G2/1000
BVH	(80°-90°)	2.1	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2526.6	2526.6	2526.6	2526.6	2526.6	2526.6	2526.6	2526.6	2526.6	2526.6	2526.6
2.5°	2806.8	2803.3	2786.7	2779.6	2739.5	2715.8	2706.3	2676.8	2634.2	2591.7	2544.4
5°	3126.1	3124.9	3094.1	3064.6	2989.0	2918.0	2905.0	2836.4	2740.6	2650.8	2560.9
7.5°	3452.4	3437.0	3406.3	3349.6	3239.5	3126.1	3115.5	3018.5	2882.5	2752.4	2623.6
10°	3729.1	3719.7	3679.4	3593.1	3464.2	3335.4	3322.4	3202.9	3049.2	2889.7	2725.2
12.5°	3944.3	3937.2	3884.0	3776.4	3639.2	3505.6	3487.9	3381.5	3217.1	3038.6	2844.7
15°	4075.5	4072.0	4007.0	3892.3	3757.5	3641.6	3626.2	3532.8	3380.3	3193.5	2974.7
17.5°	4106.3	4107.5	4040.0	3924.1	3813.0	3730.3	3718.5	3647.5	3519.9	3334.2	3104.8
20°	4037.7	4051.9	3991.6	3891.1	3822.5	3778.7	3769.3	3726.7	3619.2	3444.1	3208.8
22.5°	3940.7	3947.8	3906.4	3839.0	3810.7	3819.0	3814.2	3790.6	3699.5	3538.8	3311.7
25°	3881.6	3881.6	3856.8	3800.1	3819.0	3869.7	3871.0	3866.2	3794.1	3654.6	3437.0
27.5°	3879.2	3872.2	3843.8	3801.2	3853.3	3931.2	3936.0	3967.9	3923.0	3795.3	3593.1
30°	3973.8	3965.5	3905.2	3849.7	3915.9	3999.9	4011.6	4081.4	4058.9	3947.8	3766.9
32.5°	4194.9	4165.3	4031.7	3940.7	3990.4	4090.9	4106.3	4217.4	4252.9	4135.8	3934.8
35°	4497.6	4404.2	4211.4	4113.3	4118.1	4223.3	4237.5	4400.6	4505.9	4308.4	4064.9
37.5°	4914.9	4868.8	4555.5	4293.0	4314.4	4473.9	4515.3	4692.7	4663.1	4403.1	4212.6
40°	5830.1	5758.0	5424.6	4796.7	4502.4	4677.3	4690.3	4784.9	4787.3	4617.0	4520.1
42.5°	7076.3	7046.7	6695.6	5710.7	4872.4	4813.3	4837.0	4996.5	5175.1	5068.6	5063.9
45°	8456.0	8440.7	8068.2	6923.7	5620.8	5259.1	5288.6	5502.6	5844.3	5867.9	6018.1
47.5°	9566.2	9559.2	9345.2	8277.5	6766.5	6014.5	6024.0	6251.0	6851.6	7148.4	7388.4
50°	10578.4	10612.7	10443.6	9742.4	8327.2	7198.1	7175.6	7326.9	8291.7	8777.7	9075.6
52.5°	11985.3	12033.8	11559.7	11109.2	9964.7	8666.5	8648.8	8807.2	10022.6	10386.8	10440.0
55°	13228.0	13145.2	12770.4	12640.4	11961.6	10480.2	10475.4	10615.0	11696.8	11851.7	11949.9
57.5°	13776.6	13744.6	13925.5	14223.5	14053.2	12623.8	12613.2	12506.8	13194.8	13211.4	13512.9
60°	14123.0	14162.0	14716.5	15635.2	16059.6	14930.5	14861.9	14212.8	14625.5	14588.8	14911.6
62.5°	13862.8	13939.7	14937.6	16468.7	17561.3	16944.0	16847.0	15775.9	15848.0	15721.5	16021.8
65°	12481.9	12601.3	14236.5	16311.5	18306.1	18517.7	18419.6	17155.7	16818.7	16610.6	16443.9
67.5°	10135.0	10205.9	11913.2	14943.5	17970.3	19456.5	19436.4	18365.2	17551.8	16460.4	15167.0
69°	8375.6	8445.4	10088.8	13503.4	17231.3	19657.5	19696.5	18753.0	17412.2	15547.7	13438.4
70°	7094.0	7168.5	8699.6	12269.0	16374.2	19564.1	19633.9	18716.4	17012.6	14490.7	11921.5
72.5°	3720.8	3784.7	5355.9	8452.5	13348.5	17964.4	18176.0	17134.4	14420.9	10524.0	7049.1
75°	1169.4	1206.0	2091.5	4418.4	9139.4	13968.1	14016.5	13440.7	10240.2	5788.7	2935.8
77.5°	445.7	435.1	696.4	1628.1	4620.6	8795.4	9092.2	8399.3	5373.7	2046.6	677.5
80°	240.1	241.2	361.8	674.0	1976.8	4520.1	4770.7	4070.8	1909.5	638.5	156.0
82.5°	104.1	108.8	203.4	357.1	908.1	1667.1	1792.4	1492.1	729.5	429.2	57.9
85°	22.5	24.9	98.1	193.9	370.1	468.2	490.6	483.6	464.7	333.4	22.5
87.5°	0.0	0.0	43.8	69.8	93.4	106.4	93.4	121.8	256.5	224.7	11.8
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°	2526.6	2526.6	2526.6	2526.6	2526.6	2526.6	2526.6	2526.6	2526.6	2526.6	2526.6
2.5°	2529.1	2507.7	2471.1	2430.9	2402.5	2372.9	2349.3	2338.7	2326.8	2318.5	2329.2
5°	2524.3	2482.9	2412.0	2343.4	2293.7	2253.5	2220.4	2207.4	2194.4	2184.9	2183.7
7.5°	2565.7	2507.7	2398.9	2298.5	2221.6	2167.2	2122.3	2103.3	2088.0	2080.9	2075.0
10°	2644.8	2570.4	2425.0	2293.7	2194.4	2102.2	2005.2	1930.7	1882.3	1859.8	1851.5
12.5°	2747.8	2654.4	2474.7	2318.5	2174.3	1997.0	1791.3	1613.9	1499.2	1461.3	1438.9
15°	2868.3	2752.4	2539.7	2350.5	2101.0	1777.0	1428.2	1196.5	1090.1	1068.9	1045.2
17.5°	2984.2	2856.5	2617.6	2356.3	1940.2	1420.0	1046.4	889.1	847.7	862.0	865.5
20°	3085.9	2959.3	2694.5	2304.4	1648.2	1065.3	809.9	770.9	786.2	813.4	818.2
22.5°	3188.8	3058.7	2765.5	2167.2	1274.5	808.7	729.5	739.0	754.4	781.6	786.2
25°	3314.1	3179.3	2831.7	1915.4	956.5	688.1	692.9	707.0	722.4	747.2	749.6
27.5°	3458.4	3331.8	2875.4	1587.9	709.4	632.5	647.9	669.2	684.6	708.3	712.9
30°	3649.9	3532.8	2889.7	1248.6	594.7	582.9	589.9	616.0	638.5	659.7	663.3
32.5°	3829.6	3731.4	2842.3	942.4	551.0	536.8	536.8	552.1	578.1	598.2	603.0
35°	3995.1	3931.2	2691.0	689.3	517.8	494.2	482.4	482.4	498.9	515.5	520.3
37.5°	4213.9	4211.4	2446.2	549.8	485.9	458.8	433.9	415.0	409.0	412.7	415.0
40°	4588.6	4592.2	2127.0	493.1	458.8	422.1	384.3	350.0	318.0	307.4	306.2
42.5°	5173.9	5120.7	1792.4	465.9	435.1	384.3	327.5	281.4	231.8	216.4	215.2
45°	6103.2	5787.5	1437.8	441.0	410.3	341.7	270.8	208.1	167.9	156.0	156.0
47.5°	7456.9	6663.6	1113.8	413.8	377.2	293.3	204.6	150.2	123.0	117.1	118.2
50°	8856.9	7522.0	853.7	379.5	336.9	242.4	151.4	108.8	93.4	93.4	94.6
52.5°	10098.3	8151.0	665.7	342.9	287.3	190.3	114.7	85.1	78.1	76.9	78.1
55°	11260.5	8556.5	509.6	300.3	228.2	141.9	87.5	69.8	65.0	62.7	61.5
57.5°	12381.4	8757.6	381.9	242.4	165.5	102.8	69.8	59.2	54.4	50.9	49.7
60°	13127.5	8594.4	262.5	178.6	114.7	74.5	57.9	50.9	44.9	41.4	40.2
62.5°	13548.3	8148.6	169.1	128.8	81.6	55.6	46.1	42.6	34.3	30.7	30.7
65°	13378.1	7413.3	118.2	92.2	59.2	41.4	34.3	34.3	24.9	20.1	18.9
67.5°	11855.2	6262.8	89.9	68.6	42.6	30.7	26.0	29.5	15.4	9.5	9.5
69°	10200.0	5190.5	76.9	56.7	35.5	24.9	22.5	27.2	10.6	7.1	5.9
70°	8865.2	4477.5	69.8	49.7	29.5	21.2	20.1	26.0	10.6	5.9	4.8
72.5°	5304.0	2497.1	53.2	35.5	18.9	16.6	16.6	29.5	10.6	5.9	4.8
75°	2143.6	879.7	39.0	24.9	14.2	14.2	20.1	37.8	9.5	4.8	3.5
77.5°	485.9	192.7	22.5	15.4	9.5	14.2	23.7	29.5	5.9	2.3	0.0
80°	118.2	47.3	14.2	9.5	5.9	10.6	17.7	16.6	1.2	0.0	0.0
82.5°	39.0	16.6	5.9	4.8	1.2	3.5	8.3	4.8	0.0	0.0	0.0
85°	16.6	9.5	2.3	1.2	0.0	0.0	1.2	0.0	0.0	0.0	0.0
87.5°	10.6	3.5	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)