

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: P192853

Luminaire Tested: **GLEON-AF-05-LED-E1-SL3-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192853
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-SL3-7030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 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: 16195.5 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 162
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: 25 FT



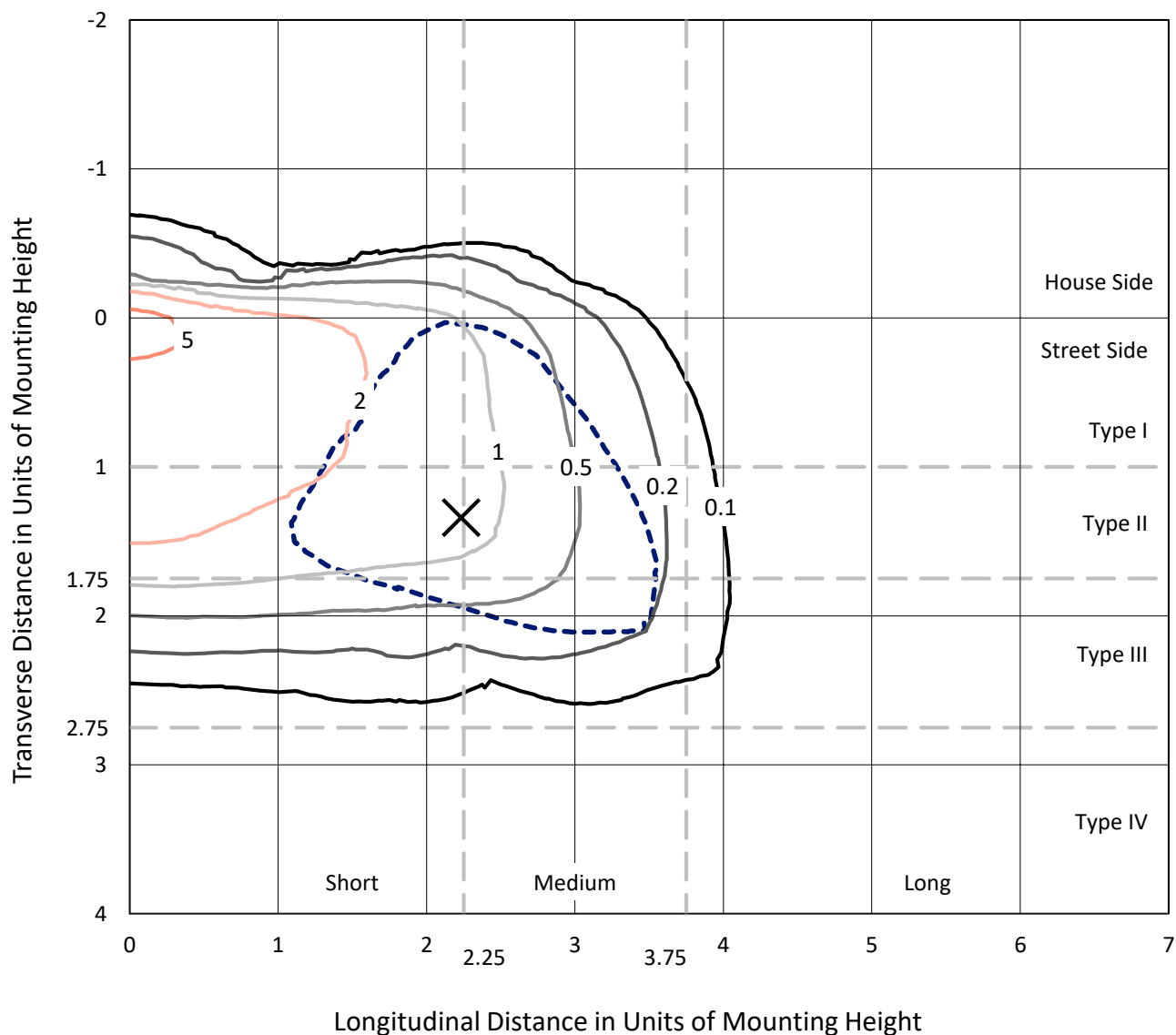
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

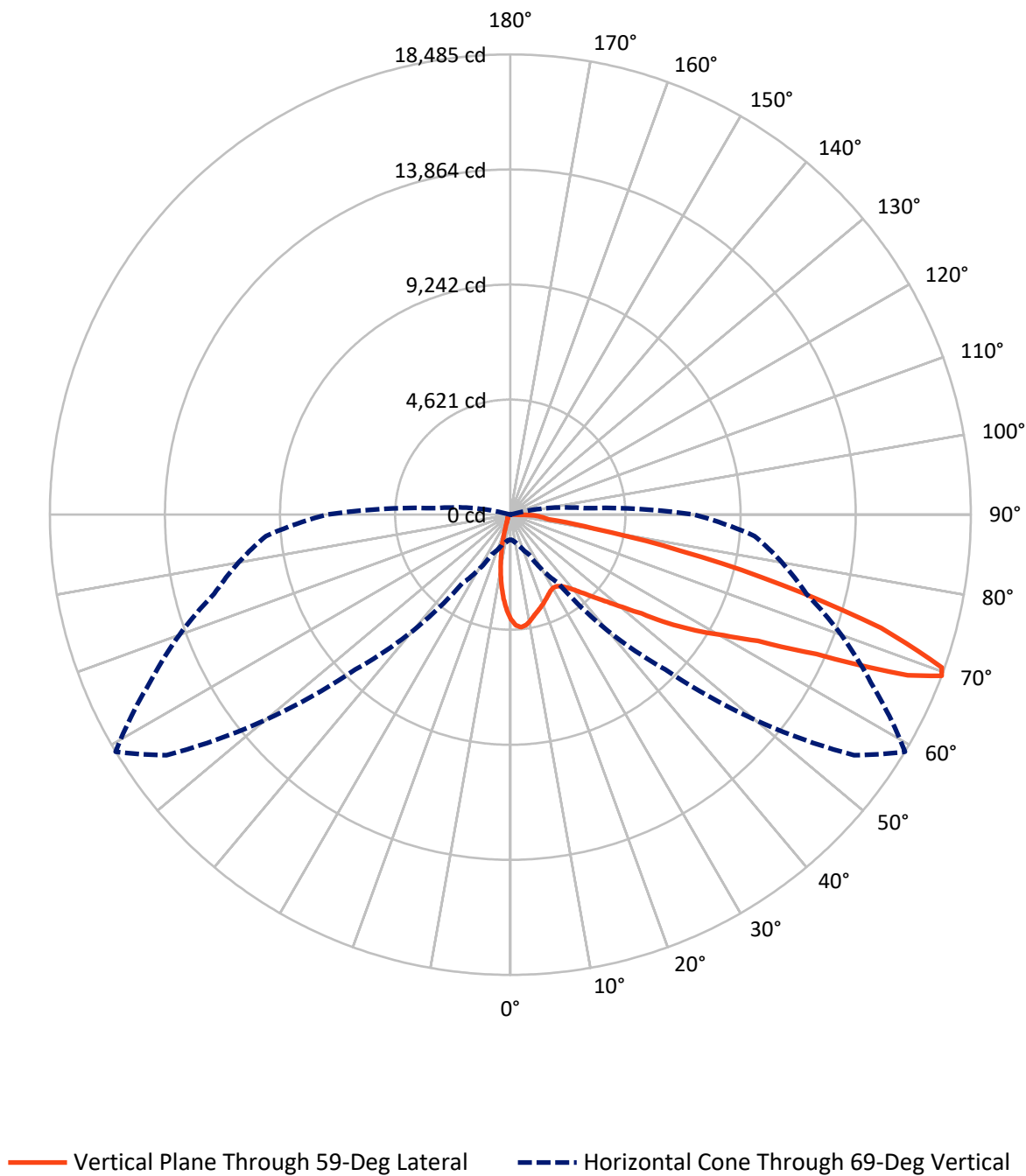


Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1318.9	0.0	1318.9
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	14876.6	0.0	14876.6
	% Fixture	91.9	0.0	91.9
Total	Lumens	16195.5	0.0	16195.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.2	2.1
10°-20°	707.0	4.4
20°-30°	951.4	5.9
30°-40°	1381.4	8.5
40°-50°	2300.0	14.2
50°-60°	3588.0	22.2
60°-70°	4439.9	27.4
70°-80°	2250.1	13.9
80°-90°	235.4	1.5
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°	16195.5	100.0
0°-180°	16195.5	100.0

Coefficient of Utilization



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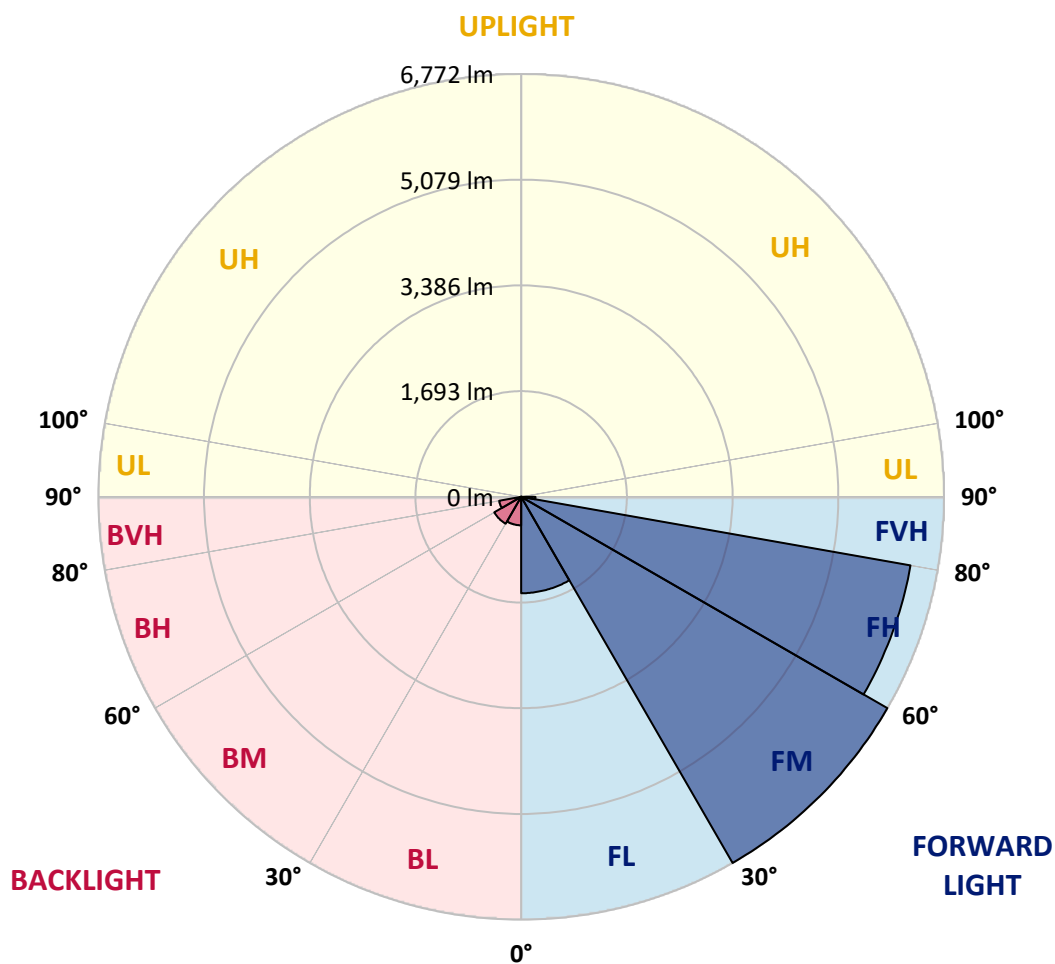
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1544.1	9.5			
FM	(30°-60°)	6772.5	41.8			
FH	(60°-80°)	6331.8	39.1			G3/7500
FVH	(80°-90°)	228.2	1.4			G3/500
BL	(0°-30°)	456.5	2.8	B1/500		
BM	(30°-60°)	497.0	3.1	B1/1000		
BH	(60°-80°)	358.2	2.2	B1/500		G1/500
BVH	(80°-90°)	7.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4215.4	4215.4	4215.4	4215.4	4215.4	4215.4	4215.4	4215.4	4215.4	4215.4	4215.4
2.5°	4620.2	4618.4	4598.2	4589.1	4572.6	4537.9	4483.8	4455.4	4409.6	4330.0	4222.8
5°	4578.1	4600.2	4612.1	4612.9	4624.8	4612.1	4563.4	4539.6	4476.5	4348.3	4155.9
7.5°	4292.4	4300.7	4334.6	4363.9	4420.6	4474.6	4492.0	4482.0	4444.4	4307.0	4051.6
10°	3986.6	3994.7	4035.1	4073.5	4150.4	4233.8	4321.8	4340.0	4355.6	4248.4	3950.9
12.5°	3722.8	3730.9	3772.1	3822.6	3912.3	4015.0	4151.3	4181.6	4250.3	4192.6	3870.2
15°	3495.6	3499.3	3539.6	3601.8	3709.1	3840.9	3995.7	4044.2	4149.5	4153.2	3799.7
17.5°	3302.4	3311.5	3336.3	3395.8	3513.0	3676.0	3856.5	3926.1	4049.7	4120.1	3730.9
20°	3184.3	3193.4	3192.5	3225.5	3330.8	3504.8	3717.2	3800.6	3950.9	4086.3	3669.7
22.5°	3161.4	3161.4	3137.6	3133.0	3195.3	3340.8	3572.6	3674.2	3862.0	4071.6	3626.7
25°	3243.0	3239.2	3179.7	3131.2	3133.9	3220.9	3432.5	3553.3	3786.8	4081.7	3603.7
27.5°	3415.0	3410.4	3335.3	3243.0	3168.7	3167.8	3326.2	3456.3	3727.4	4129.4	3612.8
30°	3653.2	3651.3	3569.8	3453.4	3318.9	3195.3	3289.6	3407.7	3688.9	4215.4	3634.0
32.5°	3913.2	3910.5	3849.1	3726.4	3556.1	3318.9	3328.0	3426.9	3699.8	4330.0	3685.2
35°	4188.9	4184.3	4157.8	4050.6	3862.9	3546.9	3454.4	3531.4	3769.5	4501.2	3786.0
37.5°	4487.5	4492.0	4511.4	4408.7	4211.8	3866.5	3665.9	3718.2	3909.7	4733.7	3949.8
40°	4927.9	4927.0	4933.5	4798.8	4609.2	4257.7	3961.7	3978.2	4143.9	5042.5	4199.0
42.5°	5727.5	5671.6	5502.2	5227.4	5037.0	4704.4	4334.6	4317.2	4430.7	5424.2	4547.9
45°	6801.7	6682.7	6243.1	5716.5	5472.9	5208.2	4793.3	4737.5	4809.8	5883.2	4978.3
47.5°	7725.7	7602.2	6980.2	6225.7	5935.4	5686.3	5330.9	5230.1	5253.9	6396.9	5524.1
50°	8039.9	7979.4	7436.4	6668.9	6383.2	6288.0	5954.6	5831.8	5798.0	6991.3	6157.0
52.5°	7930.9	7926.3	7564.6	6956.4	6793.4	6910.6	6739.4	6597.5	6472.9	7617.7	6800.9
55°	7756.0	7778.8	7616.8	7208.4	7202.8	7479.5	7812.8	7694.6	7333.8	8298.1	7355.8
57.5°	7273.4	7371.2	7587.5	7684.5	7909.9	8192.8	8706.6	8776.1	8349.4	8819.2	7816.4
60°	5901.4	6116.7	6823.7	7753.2	8821.0	9526.2	9785.4	9845.0	9182.8	9252.4	8438.2
62.5°	4188.9	4408.7	5305.3	6877.8	8834.8	11278.2	11392.7	11159.0	10100.5	9894.4	9510.7
65°	2223.5	2393.0	3125.7	4964.6	7659.8	11684.8	14203.2	13507.2	11719.5	11157.3	10896.3
67.5°	1137.4	1188.7	1479.9	2429.6	5265.9	10378.9	16722.6	17212.6	14510.0	12410.1	10829.4
69°	1006.5	1036.7	1229.9	1756.6	3372.0	8790.9	16845.4	18484.7	15970.8	12305.8	9841.3
70°	974.4	1001.0	1176.8	1589.8	2635.7	7372.3	16375.6	18372.9	16344.4	11908.2	9103.2
72.5°	827.0	849.8	1047.7	1404.8	2142.0	3659.5	13302.1	15568.8	14666.6	9920.0	6589.2
75°	553.2	628.2	1005.5	1316.9	1992.8	2078.8	8769.8	11250.8	10451.2	6690.9	3432.5
77.5°	132.8	142.9	283.8	1047.7	1822.5	1829.8	4510.3	6994.0	5704.5	2384.8	811.4
80°	71.4	68.8	79.6	207.9	1697.1	1717.1	2030.4	3394.9	2036.8	395.6	267.4
82.5°	50.4	47.6	51.3	87.0	533.9	1564.1	1469.0	1536.7	844.3	152.0	119.9
85°	18.3	17.4	28.4	78.7	167.6	899.3	1509.2	1267.5	684.1	69.6	88.0
87.5°	6.4	5.5	11.0	43.0	51.3	382.9	931.3	957.9	269.3	42.2	41.2
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°	4215.4	4215.4	4215.4	4215.4	4215.4	4215.4	4215.4	4215.4	4215.4	4215.4	4215.4
2.5°	4178.0	4121.2	4016.7	3909.7	3810.6	3691.7	3632.1	3573.5	3548.7	3539.6	3496.6
5°	4057.1	3960.8	3739.3	3516.7	3311.5	3093.5	2949.8	2834.4	2766.7	2733.6	2681.4
7.5°	3902.3	3744.8	3408.7	3065.2	2745.5	2430.6	2196.9	2017.5	1893.9	1834.4	1780.4
10°	3752.1	3542.3	3064.2	2596.3	2162.2	1744.7	1422.2	1188.7	1039.5	970.8	926.8
12.5°	3617.5	3345.4	2731.8	2139.3	1594.4	1105.3	777.5	591.6	499.1	467.1	451.5
15°	3497.5	3164.1	2417.7	1705.2	1079.7	631.9	424.9	361.7	347.1	347.1	345.3
17.5°	3383.9	2986.5	2114.6	1297.7	677.7	386.4	323.3	315.0	315.0	318.7	318.7
20°	3274.9	2817.0	1821.6	931.3	426.7	306.8	292.2	290.3	292.2	296.7	296.7
22.5°	3181.5	2663.2	1547.7	639.2	316.9	276.5	269.3	266.5	267.4	270.2	271.9
25°	3111.9	2533.1	1289.5	433.2	272.9	251.9	243.6	239.1	235.4	235.4	237.2
27.5°	3068.0	2423.3	1039.5	315.0	245.4	228.9	216.2	208.8	200.6	196.0	197.9
30°	3035.9	2318.8	805.0	257.3	219.8	203.3	186.9	175.0	163.1	157.6	159.3
32.5°	3024.0	2234.6	601.7	227.2	196.8	178.5	158.4	142.9	130.0	125.4	126.4
35°	3056.1	2167.7	440.6	205.2	178.5	155.7	132.8	115.4	105.3	102.6	103.5
37.5°	3140.3	2131.9	329.8	186.9	162.1	136.5	110.8	94.3	88.0	88.0	88.8
40°	3299.6	2131.1	264.6	174.0	147.4	118.1	91.6	79.6	76.1	77.8	78.7
42.5°	3532.3	2179.6	230.7	162.1	134.6	100.7	76.1	67.7	66.8	68.8	69.6
45°	3850.1	2268.4	212.5	152.0	120.8	84.2	64.1	58.6	58.6	61.4	62.3
47.5°	4239.3	2398.5	196.8	141.9	107.2	70.5	54.9	51.3	52.2	54.9	55.8
50°	4708.2	2562.4	181.4	131.0	97.0	58.6	47.6	44.9	45.8	49.5	50.4
52.5°	5242.0	2783.2	168.5	120.8	84.2	48.5	40.3	38.5	40.3	43.9	44.9
55°	5699.9	2980.9	153.0	112.6	67.7	40.3	33.0	33.0	34.9	39.4	40.3
57.5°	6140.5	3187.9	139.2	97.0	53.1	32.0	27.5	28.4	31.1	35.7	36.6
60°	6787.0	3538.7	122.7	81.5	40.3	25.6	23.0	23.8	27.5	32.0	33.0
62.5°	7885.1	4072.6	106.2	67.7	31.1	20.1	18.3	20.1	24.7	30.3	31.1
65°	8876.0	4289.6	87.0	56.9	23.8	15.6	15.6	18.3	23.8	29.3	30.3
67.5°	8323.8	3611.0	67.7	44.9	18.3	11.9	12.8	17.4	23.0	29.3	30.3
69°	7361.3	2952.5	57.7	35.7	15.6	11.0	11.9	17.4	23.0	28.4	29.3
70°	6611.2	2492.9	51.3	30.3	13.7	11.0	11.9	16.5	23.0	28.4	29.3
72.5°	4427.9	1346.2	41.2	22.0	12.8	10.1	10.1	16.5	22.0	27.5	28.4
75°	1903.1	371.8	33.0	15.6	11.0	9.2	9.2	15.6	21.1	26.6	28.4
77.5°	348.0	94.3	26.6	13.7	11.0	9.2	8.2	14.6	20.1	25.6	26.6
80°	138.3	46.7	21.1	11.9	10.1	8.2	7.3	13.7	19.2	24.7	25.6
82.5°	83.4	26.6	17.4	11.0	10.1	7.3	6.4	11.9	18.3	23.8	24.7
85°	67.7	18.3	13.7	11.0	9.2	7.3	5.5	11.0	16.5	23.0	23.8
87.5°	33.0	12.8	12.8	10.1	9.2	7.3	5.5	10.1	15.6	22.0	23.0
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)