

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: P194471

Luminaire Tested: **GLEON-AF-03-LED-E1-SL3-7060-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194471
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-03-LED-E1-SL3-7060-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 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: 15525 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
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: 25 FT

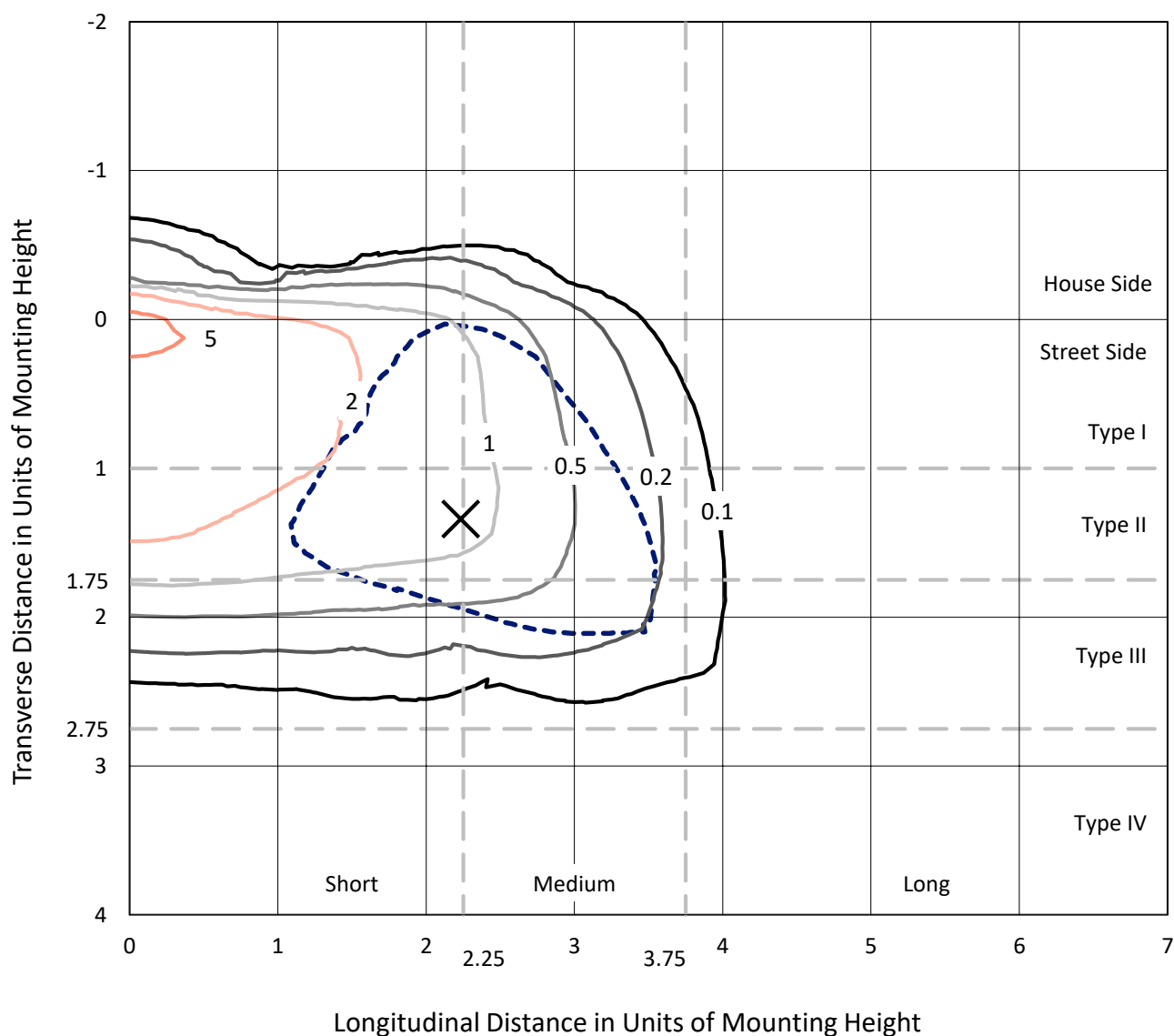


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

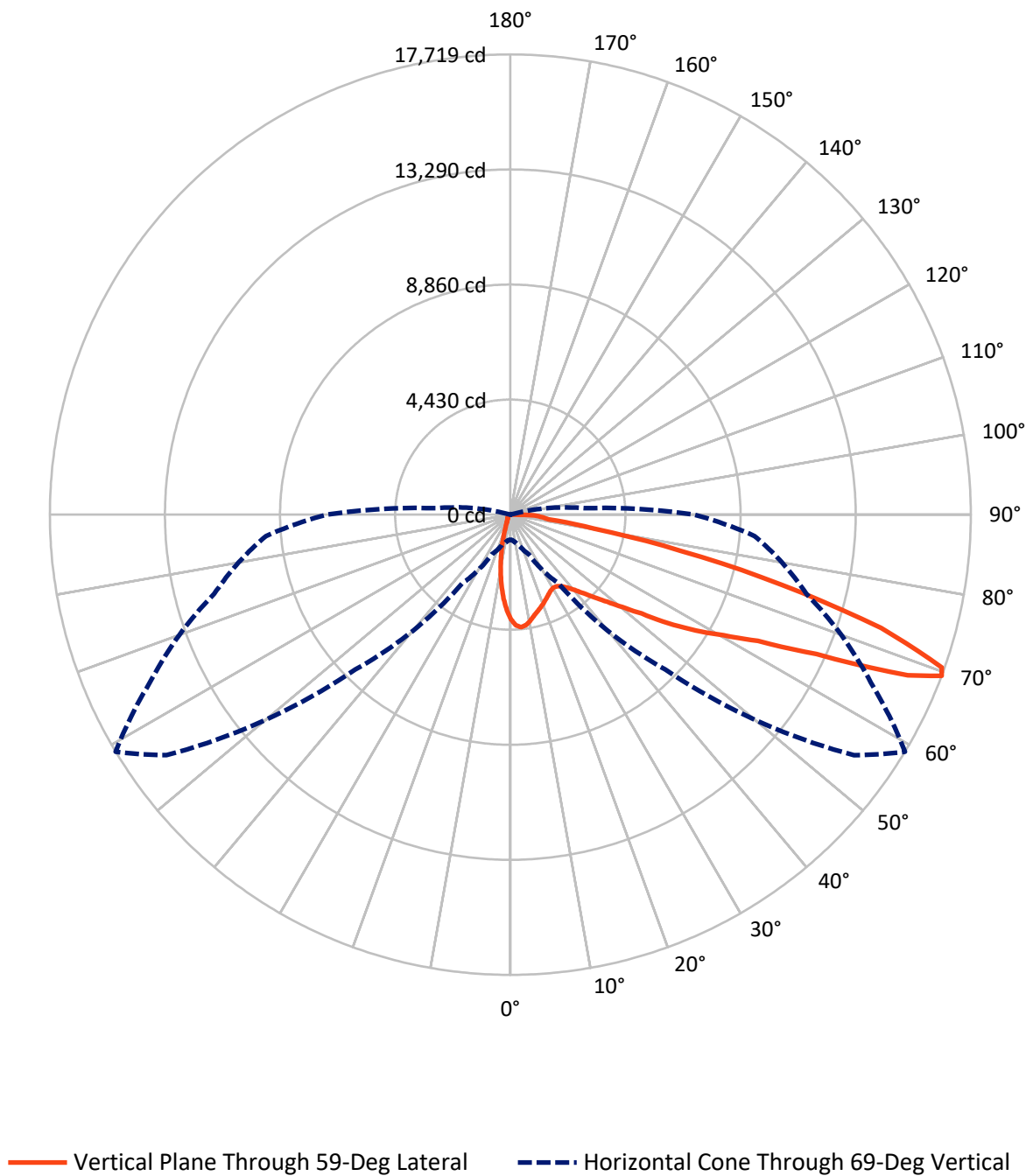


Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1264.3	0.0	1264.3
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	14260.7	0.0	14260.7
	% Fixture	91.9	0.0	91.9
Total	Lumens	15525.0	0.0	15525.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.0	2.1
10°-20°	677.7	4.4
20°-30°	912.0	5.9
30°-40°	1324.2	8.5
40°-50°	2204.8	14.2
50°-60°	3439.5	22.2
60°-70°	4256.1	27.4
70°-80°	2156.9	13.9
80°-90°	225.7	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°	15525.0	100.0
0°-180°	15525.0	100.0

Coefficient of Utilization



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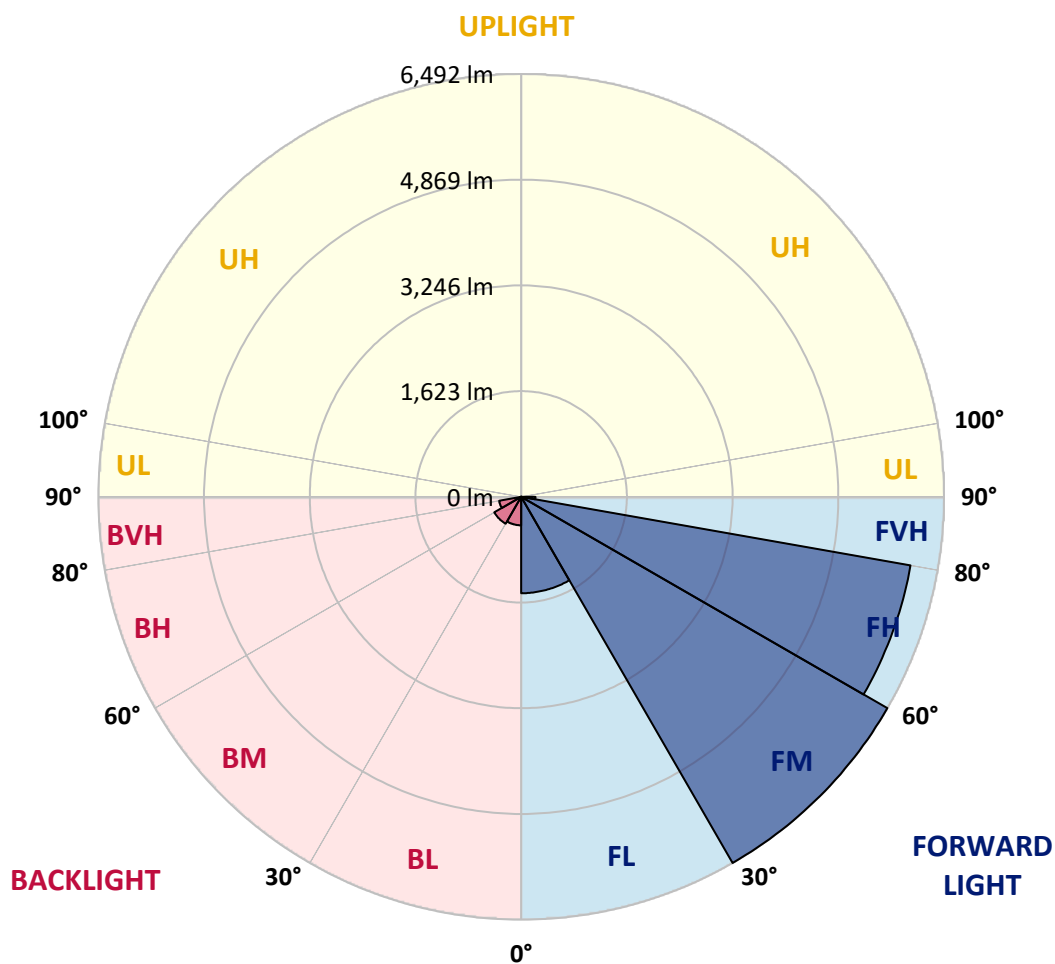
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1480.1	9.5			
FM	(30°-60°)	6492.1	41.8			
FH	(60°-80°)	6069.7	39.1			G3/7500
FVH	(80°-90°)	218.7	1.4			G2/225
BL	(0°-30°)	437.6	2.8	B1/500		
BM	(30°-60°)	476.4	3.1	B1/1000		
BH	(60°-80°)	343.4	2.2	B1/500		G1/500
BVH	(80°-90°)	6.9	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°	4040.9	4040.9	4040.9	4040.9	4040.9	4040.9	4040.9	4040.9	4040.9	4040.9	4040.9
2.5°	4429.0	4427.2	4407.9	4399.1	4383.3	4350.0	4298.2	4271.0	4227.1	4150.7	4048.0
5°	4388.6	4409.7	4421.1	4421.9	4433.4	4421.1	4374.5	4351.7	4291.1	4168.2	3983.9
7.5°	4114.7	4122.6	4155.1	4183.2	4237.6	4289.4	4306.1	4296.4	4260.4	4128.7	3883.8
10°	3821.5	3829.4	3868.0	3904.9	3978.6	4058.5	4142.8	4160.3	4175.3	4072.5	3787.2
12.5°	3568.6	3576.5	3616.0	3664.3	3750.4	3848.7	3979.5	4008.5	4074.3	4019.0	3710.0
15°	3350.9	3354.4	3393.1	3452.8	3555.5	3681.9	3830.2	3876.8	3977.7	3981.2	3642.4
17.5°	3165.7	3174.5	3198.2	3255.2	3367.6	3523.9	3696.8	3763.5	3882.0	3949.6	3576.5
20°	3052.4	3061.2	3060.3	3091.9	3192.9	3359.7	3563.4	3643.3	3787.2	3917.2	3517.7
22.5°	3030.5	3030.5	3007.7	3003.3	3063.0	3202.6	3424.7	3522.1	3702.1	3903.1	3476.5
25°	3108.6	3105.1	3048.0	3001.5	3004.2	3087.6	3290.3	3406.2	3630.1	3912.8	3454.5
27.5°	3273.7	3269.3	3197.3	3108.6	3037.5	3036.6	3188.5	3313.2	3573.0	3958.4	3463.3
30°	3501.9	3500.2	3422.0	3310.5	3181.5	3063.0	3153.4	3266.6	3536.2	4040.9	3483.5
32.5°	3751.2	3748.6	3689.8	3572.1	3408.9	3181.5	3190.3	3285.1	3546.7	4150.7	3532.6
35°	4015.5	4011.1	3985.6	3882.9	3703.0	3400.1	3311.4	3385.2	3613.4	4314.8	3629.2
37.5°	4301.7	4306.1	4324.5	4226.2	4037.4	3706.5	3514.2	3564.2	3747.7	4537.8	3786.4
40°	4723.9	4723.1	4729.2	4600.2	4418.4	4081.3	3797.8	3813.6	3972.5	4833.7	4025.1
42.5°	5490.3	5436.8	5274.4	5011.0	4828.4	4509.7	4155.1	4138.4	4247.2	5199.8	4359.6
45°	6520.1	6406.0	5984.6	5479.8	5246.3	4992.6	4594.9	4541.3	4610.7	5639.6	4772.2
47.5°	7405.9	7287.4	6691.3	5967.9	5689.6	5450.8	5110.2	5013.6	5036.5	6132.1	5295.5
50°	7707.0	7649.1	7128.5	6392.8	6118.9	6027.6	5708.1	5590.4	5557.9	6701.8	5902.1
52.5°	7602.6	7598.2	7251.4	6668.5	6512.2	6624.6	6460.4	6324.3	6204.9	7302.3	6519.2
55°	7434.9	7456.8	7301.4	6909.9	6904.6	7169.8	7489.3	7376.1	7030.2	7954.6	7051.2
57.5°	6972.2	7066.2	7273.3	7366.4	7582.4	7853.6	8346.1	8412.9	8003.8	8454.1	7492.8
60°	5657.1	5863.4	6541.2	7432.2	8455.9	9131.8	9380.3	9437.4	8802.6	8869.4	8088.9
62.5°	4015.5	4226.2	5085.6	6593.0	8469.0	10811.3	10921.0	10697.1	9682.3	9484.8	9116.9
65°	2131.5	2293.9	2996.2	4759.1	7342.7	11201.0	13615.2	12948.0	11234.4	10695.4	10445.2
67.5°	1090.3	1139.5	1418.7	2329.1	5047.9	9949.2	16030.3	16500.0	13909.3	11896.3	10381.1
69°	964.8	993.8	1179.0	1683.8	3232.4	8426.9	16148.0	17719.4	15309.6	11796.3	9433.8
70°	934.1	959.5	1128.1	1524.0	2526.6	7067.0	15697.6	17612.3	15667.8	11415.2	8726.3
72.5°	792.7	814.7	1004.3	1346.7	2053.4	3508.1	12751.4	14924.2	14059.5	9509.3	6316.4
75°	530.2	602.2	963.9	1262.4	1910.3	1992.8	8406.7	10784.9	10018.5	6413.9	3290.3
77.5°	127.3	137.0	272.1	1004.3	1747.0	1754.0	4323.6	6704.5	5468.4	2286.0	777.8
80°	68.5	65.8	76.4	199.3	1626.7	1646.0	1946.3	3254.4	1952.4	379.2	256.3
82.5°	48.3	45.7	49.2	83.4	511.8	1499.4	1408.1	1473.1	809.4	145.7	115.0
85°	17.6	16.7	27.2	75.5	160.7	862.1	1446.8	1215.0	655.8	66.7	84.3
87.5°	6.1	5.3	10.5	41.3	49.2	367.0	892.8	918.3	258.1	40.4	39.5
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°	4040.9	4040.9	4040.9	4040.9	4040.9	4040.9	4040.9	4040.9	4040.9	4040.9	4040.9
2.5°	4004.9	3950.5	3850.4	3747.7	3652.9	3538.8	3481.7	3425.5	3401.8	3393.1	3351.8
5°	3889.1	3796.9	3584.4	3371.1	3174.5	2965.5	2827.7	2717.1	2652.1	2620.5	2570.5
7.5°	3740.7	3589.7	3267.5	2938.3	2631.9	2329.9	2106.1	1934.0	1815.5	1758.4	1706.6
10°	3596.7	3395.7	2937.4	2488.8	2072.7	1672.4	1363.4	1139.5	996.4	930.6	888.4
12.5°	3467.7	3206.9	2618.8	2050.8	1528.4	1059.6	745.3	567.1	478.5	447.7	432.8
15°	3352.7	3033.1	2317.6	1634.6	1035.0	605.7	407.3	346.8	332.7	332.7	331.0
17.5°	3243.8	2862.8	2027.1	1244.0	649.6	370.5	309.9	302.0	302.0	305.5	305.5
20°	3139.3	2700.4	1746.1	892.8	409.1	294.1	280.0	278.3	280.0	284.4	284.4
22.5°	3049.8	2552.9	1483.6	612.8	303.8	265.1	258.1	255.5	256.3	259.0	260.7
25°	2983.1	2428.3	1236.1	415.2	261.6	241.4	233.5	229.1	225.6	225.6	227.4
27.5°	2940.9	2322.9	996.4	302.0	235.3	219.5	207.2	200.2	192.3	187.9	189.6
30°	2910.2	2222.8	771.7	246.7	210.7	194.9	179.1	167.7	156.3	151.0	152.8
32.5°	2898.8	2142.1	576.8	217.7	188.7	171.2	151.9	137.0	124.7	120.3	121.1
35°	2929.5	2078.0	422.3	196.6	171.2	149.2	127.3	110.6	101.0	98.3	99.2
37.5°	3010.3	2043.7	316.0	179.1	155.4	130.8	106.2	90.4	84.3	84.3	85.2
40°	3163.0	2042.9	253.7	166.8	141.3	113.2	87.8	76.4	72.9	74.6	75.5
42.5°	3386.0	2089.4	221.2	155.4	129.1	96.6	72.9	65.0	64.1	65.8	66.7
45°	3690.7	2174.5	203.7	145.7	115.9	80.8	61.5	56.2	56.2	58.8	59.7
47.5°	4063.8	2299.2	188.7	136.1	102.7	67.6	52.7	49.2	50.0	52.7	53.6
50°	4513.2	2456.3	173.8	125.5	93.1	56.2	45.7	43.0	43.9	47.4	48.3
52.5°	5025.1	2667.9	161.5	115.9	80.8	46.5	38.6	36.9	38.6	42.1	43.0
55°	5464.0	2857.5	146.6	108.0	65.0	38.6	31.6	31.6	33.4	37.7	38.6
57.5°	5886.3	3055.9	133.4	93.1	50.9	30.7	26.3	27.2	29.8	34.2	35.1
60°	6506.1	3392.2	117.6	78.1	38.6	24.6	21.9	22.8	26.3	30.7	31.6
62.5°	7558.7	3904.0	101.8	65.0	29.8	19.3	17.6	19.3	23.7	29.0	29.8
65°	8508.5	4112.1	83.4	54.4	22.8	14.9	14.9	17.6	22.8	28.1	29.0
67.5°	7979.2	3461.5	65.0	43.0	17.6	11.4	12.3	16.7	21.9	28.1	29.0
69°	7056.5	2830.3	55.3	34.2	14.9	10.5	11.4	16.7	21.9	27.2	28.1
70°	6337.5	2389.6	49.2	29.0	13.2	10.5	11.4	15.8	21.9	27.2	28.1
72.5°	4244.6	1290.5	39.5	21.1	12.3	9.7	9.7	15.8	21.1	26.3	27.2
75°	1824.3	356.4	31.6	14.9	10.5	8.8	8.8	14.9	20.2	25.5	27.2
77.5°	333.6	90.4	25.5	13.2	10.5	8.8	7.9	14.0	19.3	24.6	25.5
80°	132.6	44.8	20.2	11.4	9.7	7.9	7.0	13.2	18.4	23.7	24.6
82.5°	79.9	25.5	16.7	10.5	9.7	7.0	6.1	11.4	17.6	22.8	23.7
85°	65.0	17.6	13.2	10.5	8.8	7.0	5.3	10.5	15.8	21.9	22.8
87.5°	31.6	12.3	12.3	9.7	8.8	7.0	5.3	9.7	14.9	21.1	21.9
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)