

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: P193722

Luminaire Tested: **GLEON-AF-04-LED-E1-SL3-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193722
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-04-LED-E1-SL3-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21495 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 258
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

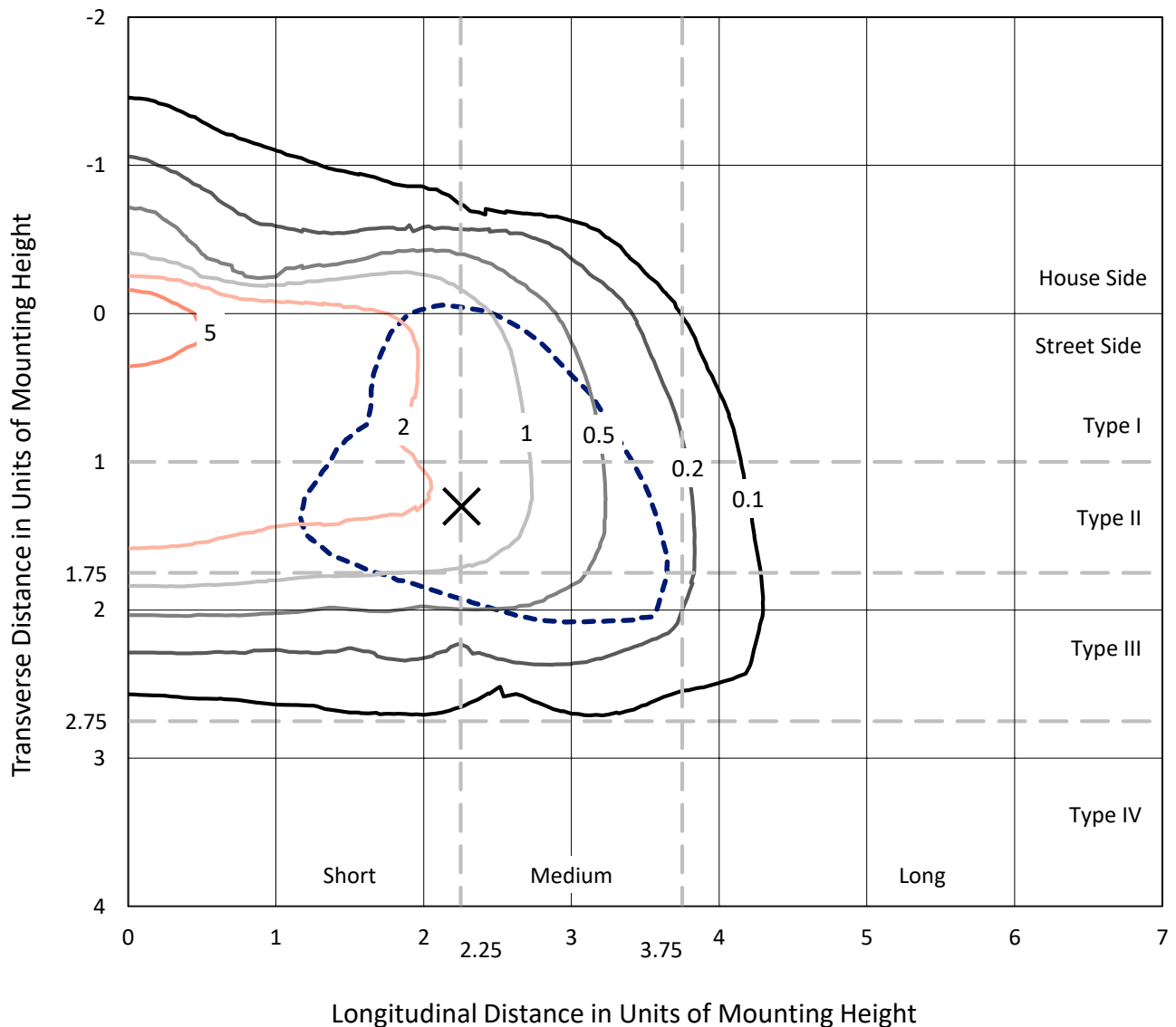


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

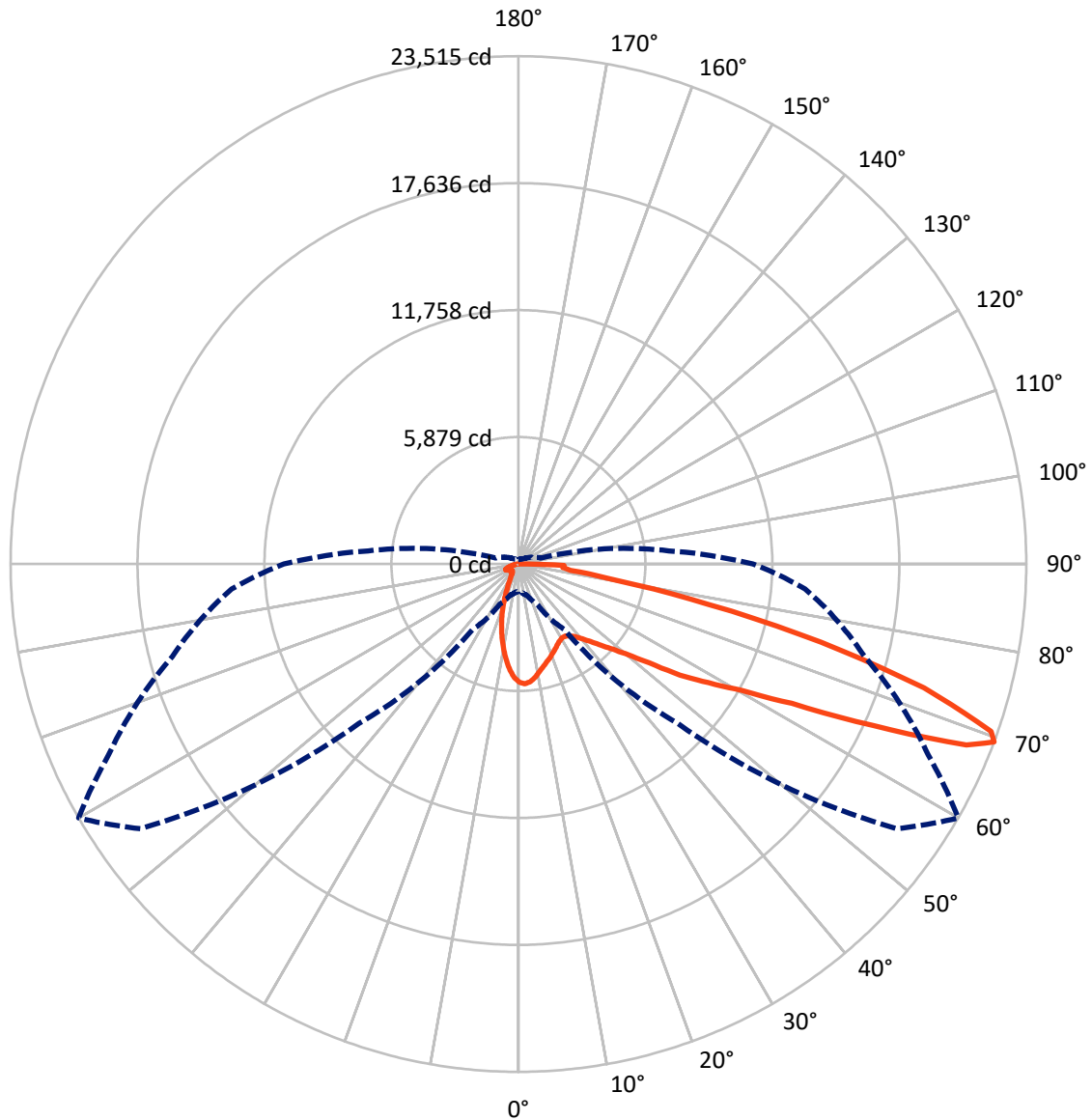


Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3058.1	0.0	3058.1
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	18436.9	0.0	18436.9
	% Fixture	85.8	0.0	85.8
Total	Lumens	21495.0	0.0	21495.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.1	2.2
10°-20°	986.7	4.6
20°-30°	1257.2	5.8
30°-40°	1728.4	8.0
40°-50°	2804.5	13.0
50°-60°	4497.7	20.9
60°-70°	5986.1	27.8
70°-80°	3232.0	15.0
80°-90°	539.3	2.5
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°	21495.0	100.0
0°-180°	21495.0	100.0

Coefficient of Utilization



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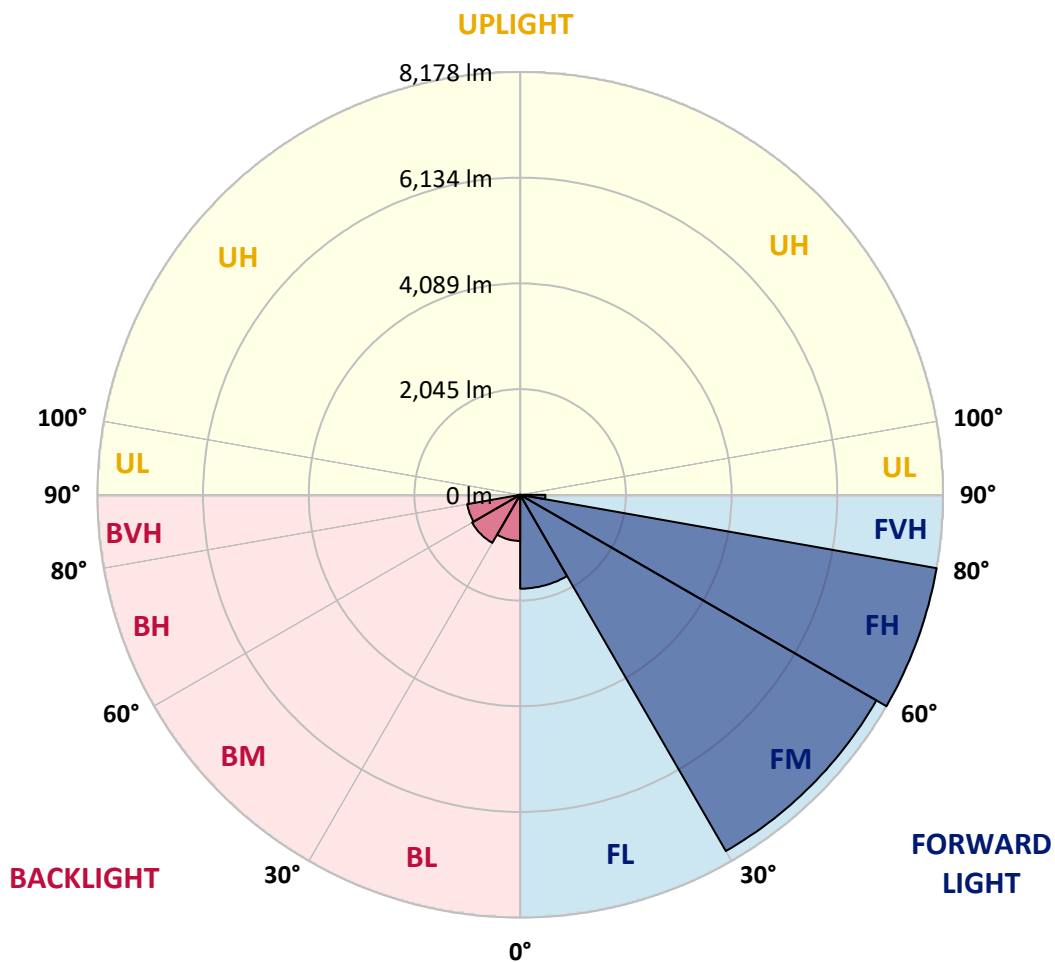
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1815.0	8.4			
FM (30°-60°)	7956.2	37.0			
FH (60°-80°)	8178.4	38.0			G4/12000
FVH (80°-90°)	487.4	2.3			G3/500
BL (0°-30°)	892.1	4.2	B2/1000		
BM (30°-60°)	1074.4	5.0	B2/2500		
BH (60°-80°)	1039.6	4.8	B3/2500		G3/2500
BVH (80°-90°)	51.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	5477.3	5477.3	5477.3	5477.3	5477.3	5477.3	5477.3	5477.3	5477.3	5477.3	5477.3
2.5°	5589.4	5601.9	5596.7	5593.5	5602.9	5588.4	5558.2	5548.9	5534.4	5500.1	5441.9
5°	5379.6	5417.0	5415.0	5443.0	5489.7	5502.2	5488.7	5490.8	5463.8	5421.2	5324.6
7.5°	5017.3	5032.8	5041.1	5102.4	5187.6	5256.1	5314.2	5332.9	5320.5	5284.1	5159.5
10°	4643.5	4655.9	4675.7	4747.3	4855.3	4949.8	5059.8	5123.2	5150.2	5143.9	5004.8
12.5°	4322.6	4335.1	4361.0	4442.0	4570.8	4687.1	4847.0	4925.9	4990.3	5028.7	4879.2
15°	4035.0	4062.0	4086.9	4180.4	4324.7	4477.3	4658.0	4757.7	4857.4	4943.5	4768.1
17.5°	3810.7	3837.7	3852.2	3937.4	4091.1	4278.0	4489.8	4607.1	4731.7	4872.9	4658.0
20°	3680.9	3693.4	3687.2	3734.9	3873.0	4071.3	4322.6	4458.6	4609.2	4806.5	4547.9
22.5°	3644.6	3645.6	3622.8	3617.6	3706.9	3874.1	4144.0	4309.1	4493.9	4762.9	4453.4
25°	3732.8	3729.7	3667.4	3616.5	3625.9	3723.5	3971.7	4163.8	4397.4	4753.5	4380.8
27.5°	3929.1	3938.4	3846.0	3750.5	3656.0	3652.9	3840.8	4043.3	4318.5	4796.1	4349.6
30°	4204.2	4219.8	4121.2	3999.7	3822.1	3675.7	3789.9	3971.7	4269.7	4884.4	4344.4
32.5°	4505.4	4522.0	4447.2	4319.5	4086.9	3816.9	3825.3	3977.9	4267.6	5007.9	4379.7
35°	4826.2	4844.9	4806.5	4698.5	4439.9	4077.6	3960.2	4078.6	4335.1	5196.9	4474.2
37.5°	5184.4	5213.5	5223.9	5121.1	4844.9	4421.3	4181.4	4269.7	4487.7	5459.6	4647.6
40°	5700.5	5741.0	5737.9	5590.4	5309.0	4885.4	4523.0	4545.9	4725.5	5810.6	4924.9
42.5°	6689.0	6697.3	6438.8	6117.9	5819.9	5373.4	4925.9	4907.2	5053.6	6255.0	5332.9
45°	7946.4	7912.2	7336.9	6717.0	6353.6	5934.1	5450.3	5358.9	5470.0	6797.0	5843.8
47.5°	8990.0	8911.0	8184.2	7328.6	6918.5	6543.6	6066.0	5906.1	5967.3	7411.7	6504.2
50°	9352.3	9293.2	8690.9	7837.4	7453.2	7287.1	6824.0	6597.6	6614.2	8144.8	7277.7
52.5°	9274.5	9266.2	8864.3	8172.8	7953.7	8067.9	7897.6	7591.3	7429.3	8958.8	8112.6
55°	9090.7	9108.3	8963.0	8563.2	8525.8	8821.8	9300.4	9074.1	8570.5	9780.1	8975.4
57.5°	8452.1	8497.8	8817.6	9054.3	9446.8	9887.1	10430.1	10365.8	9798.8	10667.9	10001.3
60°	6809.4	6915.4	7773.0	8958.8	10394.8	11771.7	12014.7	11865.1	11065.6	11769.6	11356.3
62.5°	4771.2	4881.2	5900.9	7756.4	10239.1	13900.3	14847.2	14202.4	12884.8	13392.5	13110.1
65°	2554.3	2607.3	3386.0	5381.7	8644.2	14339.5	18987.1	18005.9	15765.1	15393.4	14610.5
67.5°	1409.0	1438.1	1736.1	2717.3	5536.4	12627.3	21624.5	22365.9	19365.1	16725.6	14337.4
69°	1274.0	1301.0	1496.3	2058.0	3704.8	10440.5	21367.0	23515.3	20943.4	16593.7	13328.2
70°	1246.0	1270.9	1446.4	1897.1	2998.7	8605.8	20504.1	23221.5	21319.2	16121.3	12447.6
72.5°	1121.4	1148.4	1318.7	1703.9	2562.6	4290.4	16241.7	19634.0	19355.7	13978.2	9441.6
75°	1045.6	1070.5	1359.2	1668.6	2453.6	2715.3	10707.4	14470.3	14228.4	9778.1	5091.0
77.5°	447.5	445.4	630.3	1412.1	2489.9	2629.1	5753.5	9039.8	8247.5	4179.3	1462.0
80°	299.0	293.9	299.0	415.3	2283.3	2643.6	3014.3	4588.4	3466.0	1065.3	720.6
82.5°	257.5	253.4	262.7	253.4	802.6	3017.4	2562.6	2440.1	1647.8	605.4	357.2
85°	173.4	166.1	226.4	227.4	379.0	2681.0	2886.6	2061.1	1333.2	359.3	176.5
87.5°	83.1	81.0	131.9	160.9	222.2	1089.2	3238.6	2112.0	1344.7	183.8	84.1
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°	5477.3	5477.3	5477.3	5477.3	5477.3	5477.3	5477.3	5477.3	5477.3	5477.3	5477.3
2.5°	5424.3	5381.7	5340.2	5290.4	5238.4	5180.3	5151.2	5122.1	5114.9	5106.6	5077.5
5°	5274.8	5214.6	5110.7	4996.5	4876.1	4758.7	4669.4	4613.4	4570.8	4549.0	4510.6
7.5°	5081.6	4993.4	4811.7	4614.4	4411.9	4227.1	4067.2	3966.5	3870.9	3826.3	3775.4
10°	4897.9	4766.0	4483.6	4192.8	3902.1	3622.8	3360.1	3174.2	3009.1	2916.7	2851.3
12.5°	4740.0	4559.4	4167.9	3774.4	3375.6	2978.0	2584.4	2275.0	2016.5	1880.4	1810.9
15°	4586.4	4368.3	3867.8	3368.4	2856.5	2315.5	1798.4	1447.4	1233.5	1148.4	1119.3
17.5°	4447.2	4167.9	3566.7	2959.3	2320.7	1666.5	1208.6	1015.5	933.5	905.4	896.1
20°	4296.7	3965.4	3254.2	2531.5	1762.1	1165.0	943.9	858.7	825.5	817.2	813.0
22.5°	4151.3	3766.1	2955.1	2073.6	1265.7	899.2	810.9	775.6	770.4	777.7	777.7
25°	4027.7	3587.5	2632.2	1594.9	929.3	757.0	725.8	717.5	737.2	764.2	769.4
27.5°	3935.3	3441.1	2288.5	1177.5	740.3	658.3	657.3	670.8	719.6	771.5	781.9
30°	3872.0	3301.9	1920.9	849.4	620.9	579.4	596.0	625.1	696.7	770.4	790.2
32.5°	3839.8	3199.1	1537.8	657.3	531.6	508.8	536.8	572.1	642.7	711.3	737.2
35°	3864.7	3123.3	1176.4	548.2	469.3	451.7	480.8	515.0	556.6	585.6	605.4
37.5°	3958.2	3093.2	887.8	491.1	426.8	410.1	433.0	452.7	469.3	477.6	487.0
40°	4159.6	3125.4	711.3	462.1	402.9	382.1	391.5	398.7	409.1	417.4	421.6
42.5°	4456.6	3222.0	637.5	450.6	390.4	360.3	358.2	361.3	374.8	390.4	393.5
45°	4871.9	3392.3	632.4	457.9	384.2	342.7	333.3	337.5	358.2	382.1	386.3
47.5°	5402.5	3651.8	673.9	479.7	389.4	333.3	317.7	322.9	348.9	381.1	386.3
50°	6045.2	4014.2	743.5	511.9	412.2	335.4	312.5	315.7	342.7	378.0	383.1
52.5°	6804.3	4528.2	819.3	543.1	436.1	348.9	316.7	309.4	334.3	365.5	371.7
55°	7648.4	5187.6	897.1	571.1	448.6	365.5	325.0	301.1	318.8	344.7	349.9
57.5°	8684.7	6109.6	1032.1	598.1	456.9	376.9	333.3	292.8	299.0	317.7	321.9
60°	10087.5	7413.8	1269.9	642.7	475.6	381.1	332.3	285.5	279.3	289.7	291.8
62.5°	11768.6	8830.1	1468.2	698.8	506.7	384.2	326.0	280.4	262.7	262.7	264.8
65°	12766.4	9209.1	1358.2	745.5	532.7	381.1	318.8	275.2	250.2	238.8	239.9
67.5°	11920.2	8099.1	1164.0	754.9	531.6	366.5	307.3	265.8	237.8	220.1	219.1
69°	10860.0	6988.0	1076.8	730.0	506.7	347.8	292.8	255.4	228.4	209.7	208.7
70°	10005.5	6310.0	1019.7	703.0	479.7	334.3	281.4	246.1	221.2	203.5	201.4
72.5°	7274.6	4134.7	871.2	604.3	395.6	280.4	243.0	216.0	197.3	186.9	184.8
75°	3635.2	1971.8	707.1	490.1	303.2	224.3	199.4	180.7	171.3	169.2	168.2
77.5°	1194.1	903.4	505.7	365.5	225.3	175.5	160.9	147.4	145.4	151.6	149.5
80°	656.2	525.4	320.8	241.9	153.7	128.8	126.7	119.4	122.5	132.9	130.8
82.5°	334.3	273.1	198.3	145.4	103.8	92.4	100.7	96.6	100.7	110.1	109.0
85°	165.1	149.5	125.6	88.3	68.5	59.2	71.6	74.8	76.8	84.1	84.1
87.5°	95.5	88.3	66.5	41.5	34.3	31.2	41.5	40.5	47.8	51.9	50.9
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)