

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: P269136

Luminaire Tested: **GLEON-AF-03-LED-E1-AFL-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269136
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
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-AFL-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13087.1 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 124
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

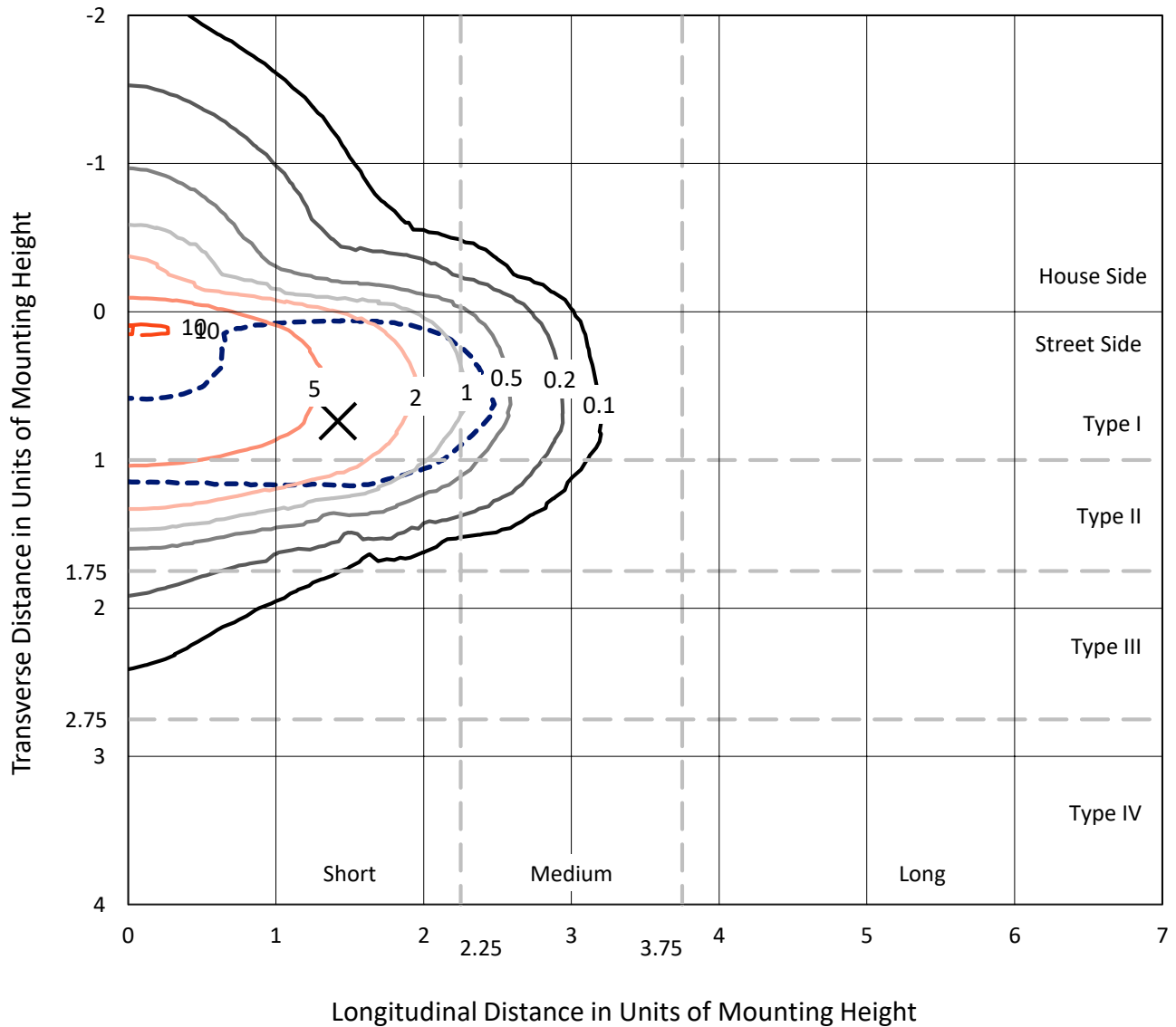


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Iso-Footcandle Lines of Horizontal Illumination

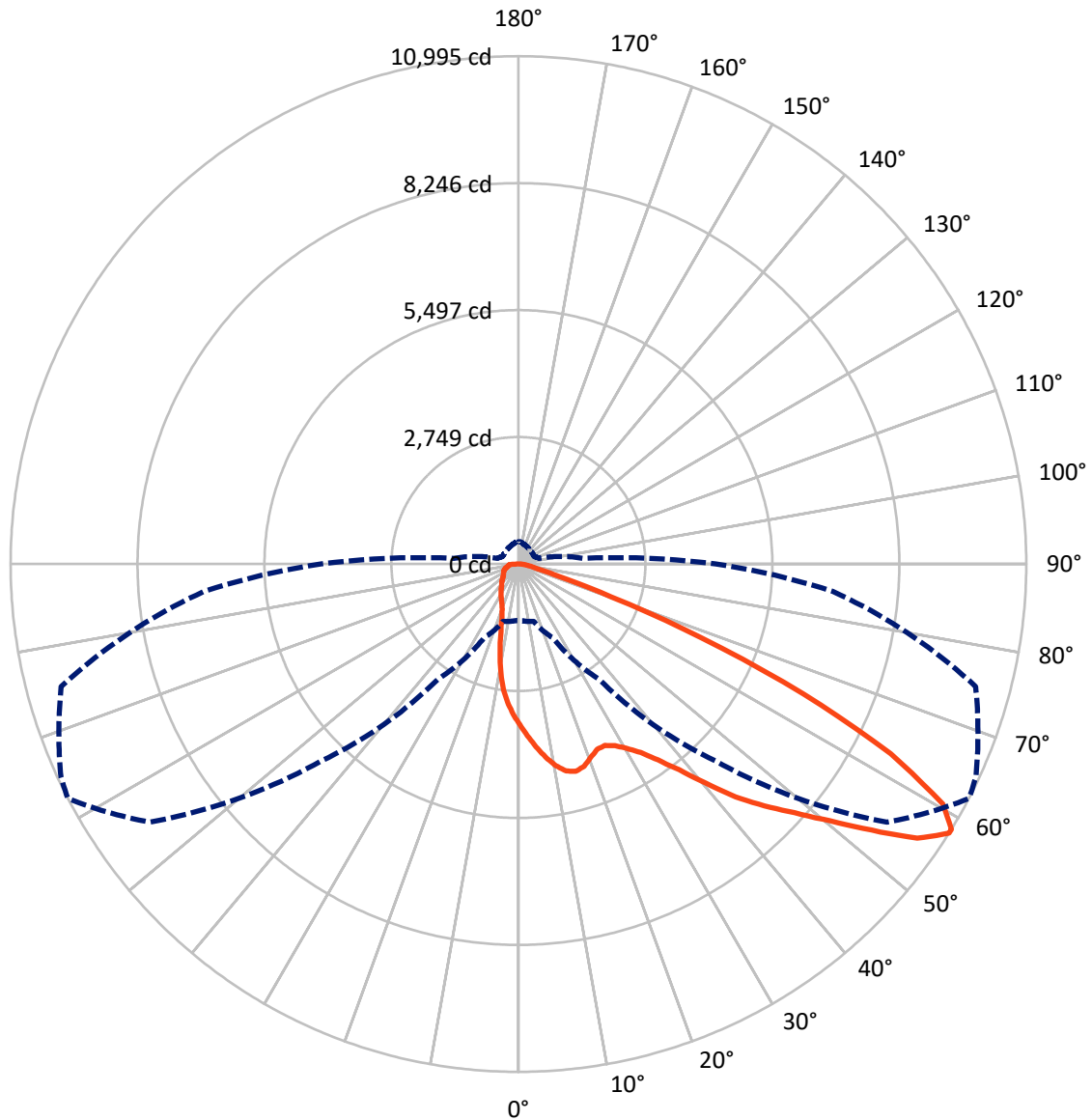
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.6 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1995.8	0.0	1995.8
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	11091.2	0.0	11091.2
	% Fixture	84.7	0.0	84.7
Total	Lumens	13087.1	0.0	13087.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.9	2.4
10°-20°	794.7	6.1
20°-30°	1284.7	9.8
30°-40°	2039.4	15.6
40°-50°	2984.1	22.8
50°-60°	3121.1	23.8
60°-70°	1844.0	14.1
70°-80°	519.5	4.0
80°-90°	188.6	1.4
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°	13087.1	100.0
0°-180°	13087.1	100.0



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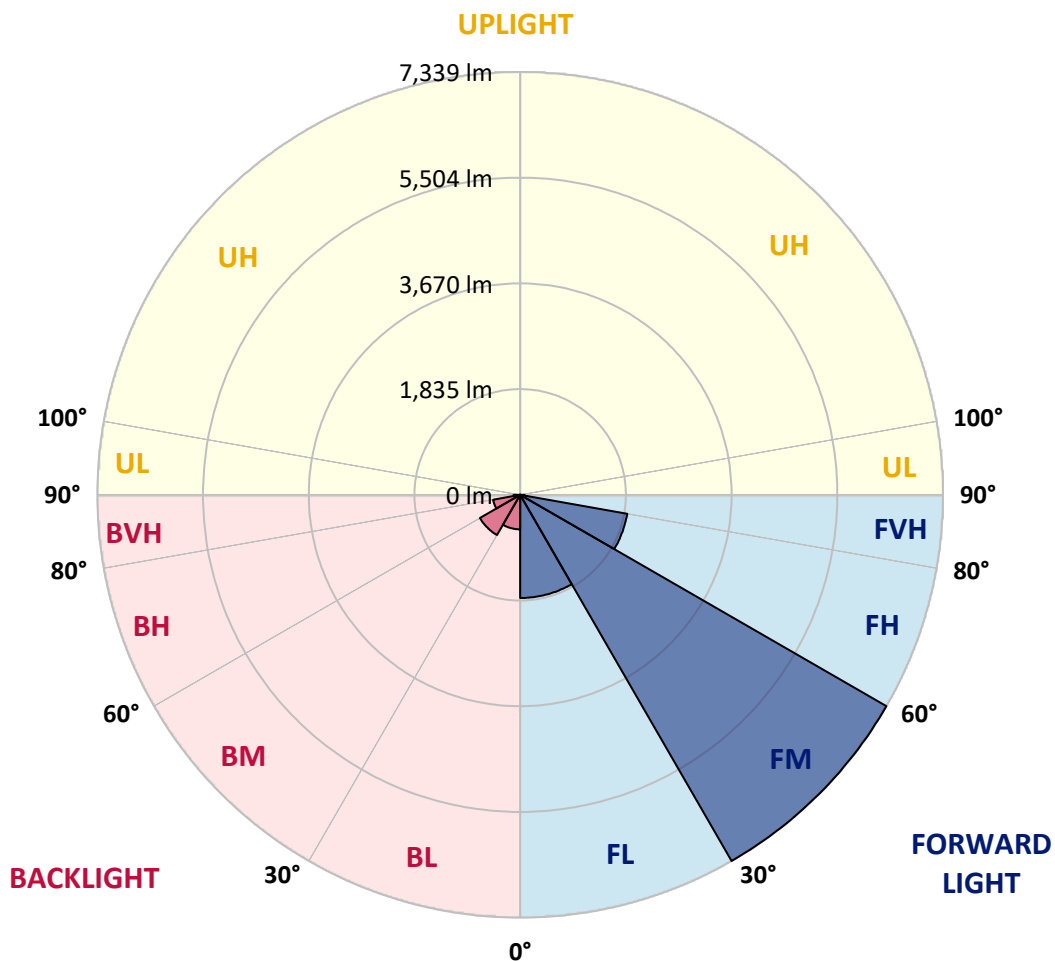
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1790.5	13.7			
FM (30°-60°)	7339.2	56.1			
FH (60°-80°)	1887.2	14.4			G2/5000
FVH (80°-90°)	74.4	0.6			G1/100
BL (0°-30°)	599.8	4.6	B2/1000		
BM (30°-60°)	805.6	6.2	B1/1000		
BH (60°-80°)	476.2	3.6	B1/500		G1/500
BVH (80°-90°)	114.2	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	3476.4	3476.4	3476.4	3476.4	3476.4	3476.4	3476.4	3476.4	3476.4	3476.4	3476.4
2.5°	3972.5	3940.3	3920.1	3902.1	3878.7	3828.8	3761.7	3719.2	3697.6	3624.2	3537.3
5°	4361.9	4333.6	4312.6	4288.6	4246.6	4168.3	4059.9	3973.7	3931.2	3784.4	3610.6
7.5°	4270.7	4282.4	4318.7	4382.2	4436.5	4425.9	4329.2	4219.5	4163.5	3959.5	3695.6
10°	3721.0	3741.4	3804.1	3952.7	4193.0	4439.6	4514.7	4439.0	4382.2	4132.7	3783.2
12.5°	3610.6	3610.1	3615.0	3654.5	3797.3	4144.3	4520.9	4597.3	4563.4	4297.9	3872.6
15°	3655.7	3656.9	3653.1	3669.8	3714.2	3851.7	4332.3	4658.3	4682.3	4464.1	3964.9
17.5°	3774.0	3770.8	3756.7	3756.7	3772.7	3826.3	4110.5	4601.6	4712.5	4611.4	4046.3
20°	3972.5	3958.2	3920.7	3886.1	3868.9	3897.8	4019.2	4471.0	4660.1	4740.3	4113.5
22.5°	4212.7	4201.6	4140.6	4066.6	4006.9	4006.4	4066.1	4357.0	4569.6	4861.6	4170.2
25°	4523.3	4505.4	4414.9	4296.6	4191.9	4151.7	4168.3	4351.4	4520.2	4993.6	4220.7
27.5°	4888.1	4855.5	4748.4	4577.6	4423.6	4342.8	4318.7	4451.8	4565.2	5156.9	4291.1
30°	5330.6	5293.1	5155.6	4933.1	4715.7	4583.2	4531.9	4630.0	4714.3	5356.0	4403.9
32.5°	5834.1	5779.9	5620.9	5375.6	5089.6	4887.6	4804.3	4865.4	4932.6	5595.6	4545.0
35°	6529.9	6465.2	6235.3	5897.0	5574.1	5296.1	5163.0	5207.4	5272.7	5953.1	4748.9
37.5°	7004.4	6975.3	6822.5	6504.5	6153.3	5833.6	5627.7	5653.6	5690.6	6399.9	5010.1
40°	7000.1	7011.8	7014.9	7018.0	6778.8	6472.6	6251.3	6224.1	6216.8	6890.4	5307.2
42.5°	6649.4	6697.6	6852.8	7167.7	7313.1	7172.6	6969.9	6891.6	6852.8	7468.5	5622.1
45°	6112.6	6138.6	6429.3	7044.5	7586.7	7865.9	7712.5	7466.0	7395.7	7999.6	5883.4
47.5°	5836.0	5864.3	6047.3	6717.9	7583.8	8426.1	8514.9	8045.3	7919.5	8461.9	6109.0
50°	5177.2	5236.3	5466.8	6149.6	7307.0	8683.6	9353.6	8735.5	8475.4	8911.7	6335.1
52.5°	3967.5	4058.7	4316.9	5215.4	6605.1	8556.1	10024.6	9572.3	9205.0	9377.5	6529.3
55°	2502.6	2570.4	2787.4	3683.4	5283.8	7892.4	10279.1	10477.7	10150.9	9818.8	6697.6
57.5°	1360.8	1390.8	1472.2	2033.7	3436.8	6425.0	9908.2	10992.7	10857.3	10193.5	6824.5
58°	1217.7	1238.0	1288.6	1762.6	3047.9	6023.9	9743.6	10994.6	10926.9	10248.4	6834.3
60°	903.4	892.9	848.0	1005.7	1696.5	4161.6	8749.0	10554.6	10753.7	10315.5	6786.2
62.5°	793.7	768.5	676.7	666.2	825.2	1917.3	6694.3	9041.1	9511.3	9932.2	6494.1
65°	745.7	718.6	600.2	562.0	595.2	811.0	3943.4	6780.6	7370.5	8770.0	5747.3
67.5°	709.9	674.7	551.6	499.2	501.7	536.2	1580.7	4270.7	4934.4	6658.6	4470.3
70°	675.4	637.2	510.2	450.0	435.7	424.0	628.5	2137.7	2739.9	4206.0	2850.2
72.5°	638.4	600.8	473.9	411.1	383.2	344.5	410.4	874.5	1221.4	1989.8	1292.9
75°	584.8	550.9	437.6	376.5	337.1	285.3	309.9	456.7	547.8	792.6	623.1
77.5°	519.0	491.2	397.0	348.3	298.9	231.8	238.5	316.7	351.2	453.6	370.5
80°	372.8	382.7	353.2	313.1	266.2	187.9	183.1	231.1	249.5	291.5	240.9
82.5°	261.9	267.4	292.0	255.7	220.1	148.0	134.9	162.8	173.8	191.7	130.1
85°	180.6	174.5	200.3	178.1	159.0	98.6	92.4	110.3	117.0	118.9	67.2
87.5°	108.4	108.4	115.8	95.5	85.7	51.2	49.9	62.8	67.2	64.0	37.0
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°	3476.4	3476.4	3476.4	3476.4	3476.4	3476.4	3476.4	3476.4	3476.4	3476.4	3476.4
2.5°	3485.6	3441.8	3348.7	3274.2	3179.9	3081.9	3027.1	2968.4	2928.5	2899.5	2945.7
5°	3512.1	3422.7	3230.5	3047.9	2846.5	2637.0	2478.0	2330.1	2227.2	2163.1	2223.5
7.5°	3554.0	3416.6	3110.2	2798.4	2436.7	2087.9	1776.0	1580.7	1466.8	1410.6	1445.7
10°	3602.1	3406.7	2969.2	2460.1	1942.4	1503.0	1270.2	1191.2	1165.3	1155.0	1159.8
12.5°	3642.1	3385.7	2796.0	2050.9	1458.7	1186.9	1119.7	1117.9	1123.4	1124.7	1126.6
15°	3670.5	3354.9	2539.0	1624.5	1166.5	1081.5	1077.8	1088.9	1099.3	1103.7	1106.3
17.5°	3689.6	3291.4	2248.7	1284.2	1045.2	1030.4	1039.0	1053.3	1064.3	1067.4	1069.8
20°	3687.7	3198.3	1903.0	1071.0	979.2	979.2	994.1	1005.2	1005.7	1002.0	1003.9
22.5°	3668.6	3070.9	1567.7	957.7	920.8	931.2	945.9	935.5	892.3	864.0	865.8
25°	3636.6	2918.7	1280.5	885.5	866.4	884.9	880.6	801.7	740.2	712.4	712.4
27.5°	3608.2	2738.7	1060.0	822.7	812.2	835.1	758.6	687.2	661.2	648.2	643.9
30°	3587.9	2544.4	912.7	762.3	761.0	744.4	658.2	638.4	634.2	623.7	620.0
32.5°	3592.9	2347.9	818.4	709.3	713.7	637.2	610.0	614.4	610.7	599.6	594.7
35°	3633.5	2161.2	756.7	661.2	648.2	575.5	581.7	589.7	588.5	573.1	568.2
37.5°	3706.1	1984.4	716.0	621.2	565.8	544.8	554.7	567.0	563.9	553.4	549.8
40°	3782.7	1818.0	682.8	589.7	517.1	523.8	532.4	539.3	542.2	545.5	542.9
42.5°	3857.1	1644.2	642.2	557.7	496.8	504.0	507.8	514.5	531.2	542.9	542.2
45°	3901.5	1480.9	600.2	512.2	480.8	484.9	482.5	496.0	516.4	535.5	536.2
47.5°	3950.8	1353.9	567.0	470.3	465.3	468.3	461.0	474.6	493.0	516.4	519.0
50°	4010.7	1278.1	540.5	436.9	444.3	444.3	442.4	454.8	480.8	507.8	512.8
52.5°	4078.5	1263.3	518.3	413.0	423.5	422.7	424.5	443.1	471.4	497.9	502.2
55°	4160.9	1303.4	494.2	395.1	403.0	405.5	411.7	432.7	456.7	486.8	488.7
57.5°	4257.1	1384.7	475.2	380.8	384.6	392.6	402.4	421.6	447.4	480.8	482.5
58°	4273.1	1402.0	472.1	379.7	380.8	390.1	401.3	419.7	445.6	481.9	483.7
60°	4273.7	1459.2	465.3	374.1	366.7	382.0	394.4	413.0	442.4	486.3	490.6
62.5°	4122.1	1458.7	460.3	366.1	351.9	371.0	385.2	406.8	439.5	496.8	505.3
65°	3629.7	1325.5	436.9	353.8	340.2	361.1	377.2	402.4	448.1	542.2	547.8
67.5°	2839.2	1086.5	393.2	336.4	324.7	351.2	372.2	401.8	457.2	552.7	556.5
70°	1877.1	812.8	345.0	316.7	308.7	339.6	374.8	422.7	446.7	530.5	520.7
72.5°	974.3	570.7	306.3	292.0	290.2	329.0	410.4	420.2	436.2	499.2	486.8
75°	511.5	396.2	272.4	265.0	268.1	326.7	484.4	409.2	422.7	477.5	501.1
77.5°	313.1	319.8	243.4	240.3	246.6	319.2	483.7	395.1	403.0	439.5	465.3
80°	209.6	259.4	221.3	221.8	226.2	292.0	434.5	372.8	378.9	415.3	441.8
82.5°	132.5	153.4	201.0	211.5	205.8	240.9	369.2	339.6	348.3	475.2	502.2
85°	67.2	96.2	174.5	203.3	185.5	168.8	299.6	297.7	302.0	342.7	358.1
87.5°	30.8	53.0	136.3	177.4	139.9	105.5	217.5	220.7	238.0	243.4	243.4
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)