

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: P194291

Luminaire Tested: **GLEON-AF-03-LED-E1-AFL-7060-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194291
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-7060-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12284 lumens
Efficiency: N/A
Efficacy: 128.0 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): 96
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



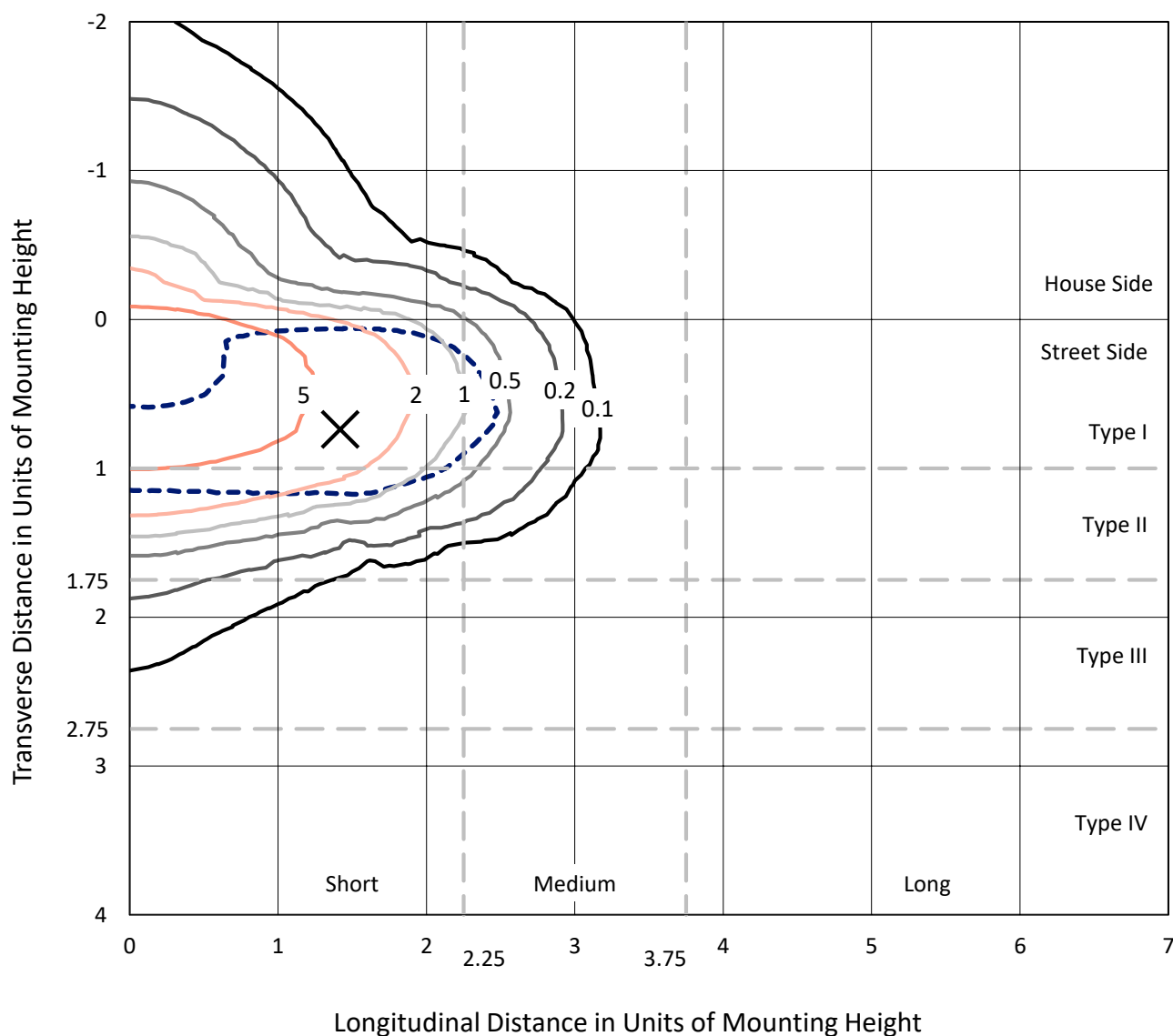
REPORT NUMBER: P194291

CATALOG NUMBER: GLEON-AF-03-LED-E1-AFL-7060-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

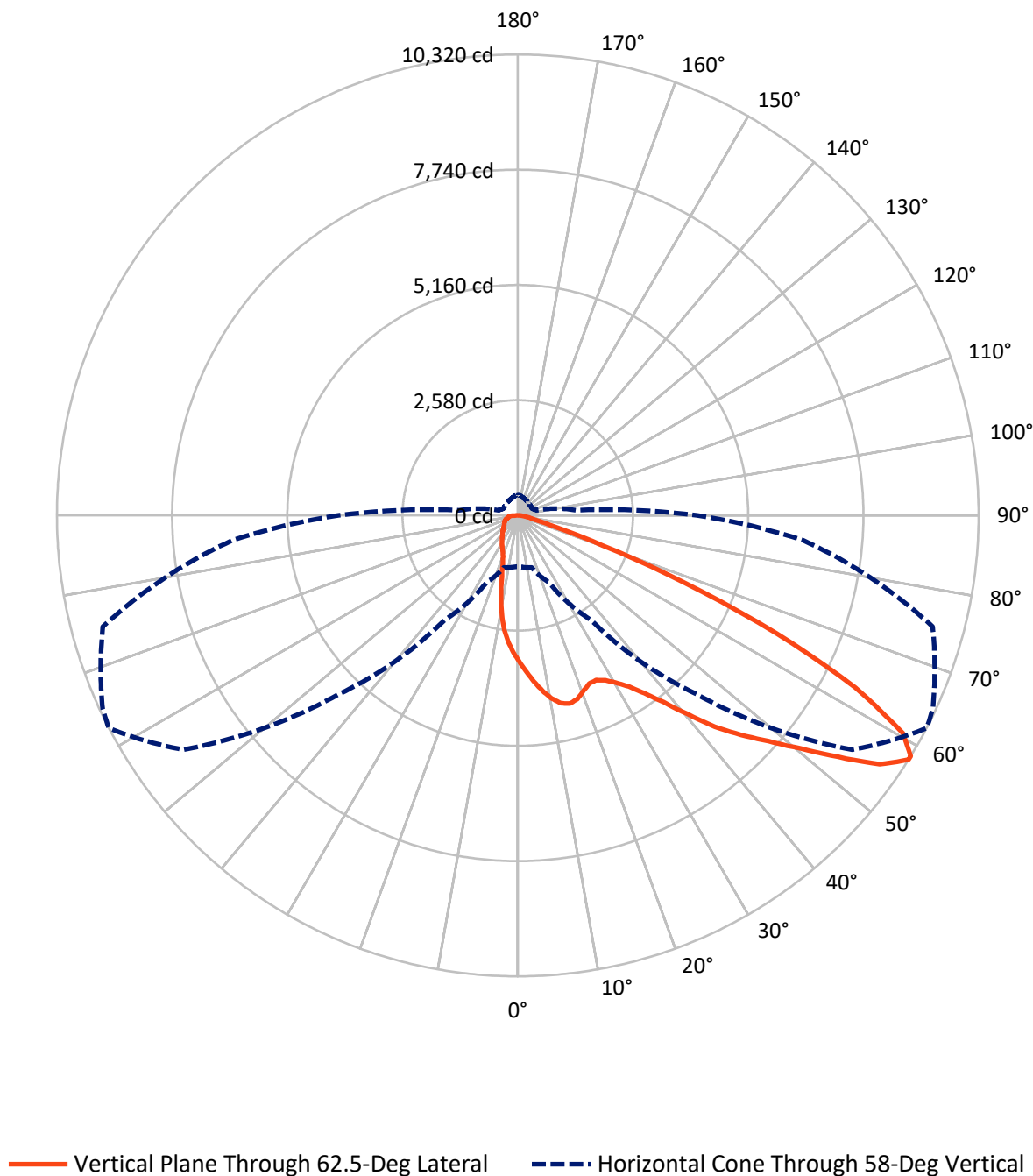


Based on 20 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P194291

CATALOG NUMBER: GLEON-AF-03-LED-E1-AFL-7060-600

Luminous Intensity Polar Plot



REPORT NUMBER: P194291

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1873.4	0.0	1873.4
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	10410.6	0.0	10410.6
	% Fixture	84.7	0.0	84.7
Total	Lumens	12284.0	0.0	12284.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.8	2.4
10°-20°	746.0	6.1
20°-30°	1205.9	9.8
30°-40°	1914.3	15.6
40°-50°	2801.0	22.8
50°-60°	2929.6	23.8
60°-70°	1730.8	14.1
70°-80°	487.6	4.0
80°-90°	177.0	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°	12284.0	100.0
0°-180°	12284.0	100.0

Coefficient of Utilization



REPORT NUMBER: P194291

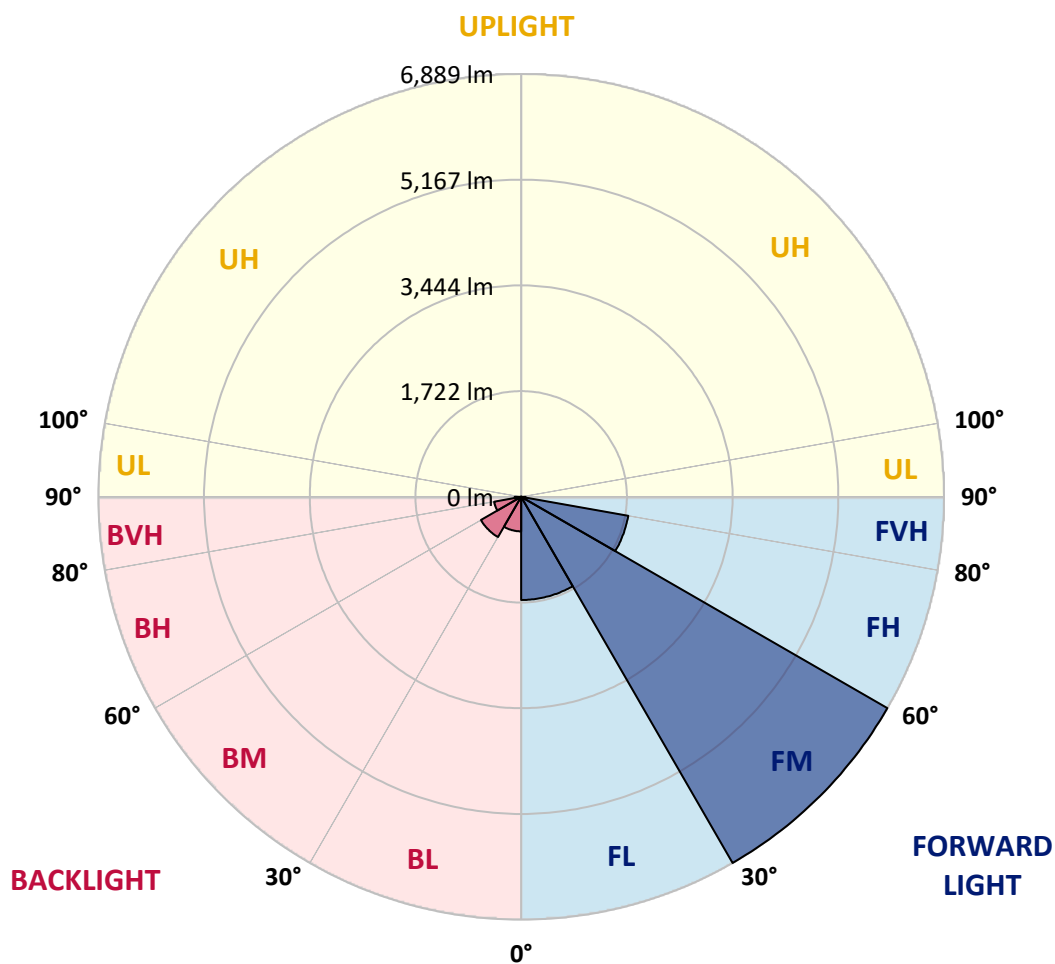
CATALOG NUMBER: GLEON-AF-03-LED-E1-AFL-7060-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1680.6	13.7			
FM	(30°-60°)	6888.8	56.1			
FH	(60°-80°)	1771.4	14.4			G1/1800
FVH	(80°-90°)	69.8	0.6			G1/100
BL	(0°-30°)	563.0	4.6	B2/1000		
BM	(30°-60°)	756.1	6.2	B1/1000		
BH	(60°-80°)	447.0	3.6	B1/500		G1/500
BVH	(80°-90°)	107.2	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



REPORT NUMBER: P194291

CATALOG NUMBER: GLEON-AF-03-LED-E1-AFL-7060-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	3263.0	3263.0	3263.0	3263.0	3263.0	3263.0	3263.0	3263.0	3263.0	3263.0	3263.0
2.5°	3728.6	3698.6	3679.5	3662.7	3640.7	3593.9	3530.8	3490.9	3470.7	3401.8	3320.3
5°	4094.2	4067.6	4047.9	4025.4	3986.0	3912.6	3810.8	3729.8	3689.9	3552.2	3389.1
7.5°	4008.6	4019.6	4053.7	4113.3	4164.2	4154.4	4063.6	3960.6	3908.0	3716.5	3468.9
10°	3492.6	3511.7	3570.7	3710.1	3935.7	4167.1	4237.7	4166.5	4113.3	3879.0	3551.1
12.5°	3389.1	3388.5	3393.1	3430.2	3564.4	3890.0	4243.5	4315.2	4283.4	4034.1	3634.9
15°	3431.3	3432.5	3429.0	3444.6	3486.3	3615.3	4066.5	4372.4	4395.0	4190.2	3721.7
17.5°	3542.4	3539.5	3526.2	3526.2	3541.2	3591.5	3858.2	4319.2	4423.4	4328.5	3798.1
20°	3728.6	3715.3	3680.1	3647.7	3631.5	3658.6	3772.6	4196.6	4374.2	4449.4	3861.1
22.5°	3954.2	3943.8	3886.6	3817.1	3761.0	3760.5	3816.6	4089.6	4289.2	4563.3	3914.3
25°	4245.8	4229.0	4144.0	4032.9	3934.6	3897.0	3912.6	4084.4	4242.9	4687.1	3961.8
27.5°	4588.2	4557.5	4456.9	4296.7	4152.1	4076.3	4053.7	4178.7	4285.1	4840.4	4027.7
30°	5003.5	4968.2	4839.3	4630.4	4426.2	4301.9	4253.9	4345.8	4425.1	5027.2	4133.6
32.5°	5476.1	5425.2	5276.0	5045.8	4777.4	4587.6	4509.5	4566.8	4629.9	5252.3	4266.0
35°	6129.2	6068.4	5852.7	5535.1	5232.0	4971.1	4846.2	4887.8	4949.2	5587.8	4457.5
37.5°	6574.6	6547.4	6403.9	6105.5	5775.7	5475.5	5282.3	5306.6	5341.3	6007.1	4702.7
40°	6570.5	6581.5	6584.4	6587.3	6362.9	6075.4	5867.7	5842.3	5835.3	6467.6	4981.5
42.5°	6241.4	6286.5	6432.3	6727.9	6864.4	6732.5	6542.2	6468.7	6432.3	7010.1	5277.1
45°	5737.6	5761.9	6034.9	6612.2	7121.2	7383.2	7239.2	7007.8	6941.9	7508.8	5522.4
47.5°	5477.9	5504.5	5676.3	6305.6	7118.3	7909.0	7992.3	7551.6	7433.6	7942.6	5734.1
50°	4859.5	4915.0	5131.4	5772.3	6858.6	8150.8	8779.6	8199.4	7955.3	8364.9	5946.4
52.5°	3724.0	3809.6	4052.0	4895.4	6199.7	8031.1	9409.5	8984.9	8640.2	8802.2	6128.6
55°	2349.1	2412.7	2616.3	3457.4	4959.6	7408.1	9648.4	9834.7	9528.1	9216.3	6286.5
57.5°	1277.2	1305.5	1381.9	1908.9	3226.0	6030.8	9300.2	10318.3	10191.0	9568.0	6405.7
58°	1143.0	1162.1	1209.5	1654.3	2861.0	5654.3	9145.8	10320.0	10256.4	9619.5	6414.9
60°	848.0	838.2	795.9	944.0	1592.5	3906.2	8212.1	9907.0	10093.8	9682.5	6369.8
62.5°	745.0	721.3	635.1	625.3	774.5	1799.5	6283.6	8486.3	8927.7	9322.8	6095.6
65°	699.9	674.5	563.4	527.5	558.8	761.2	3701.5	6364.6	6918.2	8231.8	5394.6
67.5°	666.4	633.4	517.7	468.5	470.9	503.2	1483.7	4008.6	4631.6	6250.1	4196.0
70°	634.0	598.1	479.0	422.3	409.0	398.0	590.0	2006.6	2571.8	3947.9	2675.3
72.5°	599.3	564.0	444.8	385.8	359.8	323.3	385.2	820.8	1146.5	1867.8	1213.6
75°	548.9	517.1	410.7	353.4	316.4	267.8	291.0	428.6	514.2	743.9	584.8
77.5°	487.0	461.0	372.5	326.8	280.5	217.5	223.9	297.3	329.7	425.7	347.6
80°	350.0	359.2	331.4	293.8	249.9	176.4	171.8	216.9	234.3	273.6	226.2
82.5°	245.8	251.0	274.2	240.1	206.5	138.8	126.7	152.7	163.1	179.9	122.1
85°	169.5	163.7	188.0	167.2	149.2	92.6	86.8	103.5	109.9	111.6	63.1
87.5°	101.8	101.8	108.7	89.7	80.4	48.0	46.9	59.0	63.1	60.2	34.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P194291

CATALOG NUMBER: GLEON-AF-03-LED-E1-AFL-7060-600

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3263.0	3263.0	3263.0	3263.0	3263.0	3263.0	3263.0	3263.0	3263.0	3263.0	3263.0
2.5°	3271.7	3230.6	3143.3	3073.3	2984.8	2892.8	2841.3	2786.4	2748.8	2721.6	2765.0
5°	3296.5	3212.7	3032.2	2861.0	2671.8	2475.2	2325.9	2187.1	2090.5	2030.3	2087.0
7.5°	3335.9	3206.9	2919.4	2626.7	2287.2	1959.8	1667.1	1483.7	1376.7	1324.1	1357.0
10°	3381.0	3197.6	2786.9	2309.1	1823.3	1410.8	1192.2	1118.1	1093.8	1084.0	1088.6
12.5°	3418.6	3178.0	2624.4	1925.1	1369.2	1114.1	1051.0	1049.3	1054.5	1055.7	1057.4
15°	3445.2	3149.0	2383.2	1524.8	1095.0	1015.2	1011.7	1022.1	1031.9	1036.0	1038.3
17.5°	3463.1	3089.5	2110.7	1205.5	981.0	967.2	975.3	988.6	999.0	1001.9	1004.2
20°	3461.4	3002.1	1786.2	1005.3	919.1	919.1	933.0	943.4	944.0	940.5	942.3
22.5°	3443.5	2882.4	1471.6	898.9	864.2	874.0	887.9	878.1	837.6	811.0	812.7
25°	3413.4	2739.5	1202.0	831.2	813.3	830.6	826.6	752.6	694.7	668.7	668.7
27.5°	3386.8	2570.6	994.9	772.2	762.4	783.8	712.1	645.0	620.7	608.5	604.5
30°	3367.7	2388.4	856.7	715.5	714.4	698.8	617.8	599.3	595.2	585.4	581.9
32.5°	3372.3	2203.9	768.2	665.8	669.8	598.1	572.7	576.7	573.2	562.8	558.2
35°	3410.5	2028.6	710.3	620.7	608.5	540.3	546.0	553.6	552.4	538.0	533.3
37.5°	3478.8	1862.6	672.2	583.1	531.0	511.3	520.6	532.2	529.3	519.4	516.0
40°	3550.5	1706.4	640.9	553.6	485.3	491.7	499.8	506.1	509.0	511.9	509.6
42.5°	3620.5	1543.3	602.7	523.5	466.2	473.2	476.6	483.0	498.6	509.6	509.0
45°	3662.1	1390.0	563.4	480.7	451.2	455.2	452.9	465.6	484.7	502.7	503.2
47.5°	3708.4	1270.8	532.2	441.4	436.7	439.6	432.7	445.4	462.8	484.7	487.0
50°	3764.5	1199.7	507.3	410.1	417.1	417.1	415.3	426.9	451.2	476.6	481.3
52.5°	3828.1	1185.8	486.5	387.6	397.4	396.8	398.5	415.9	442.5	467.4	471.4
55°	3905.6	1223.4	463.9	370.8	378.3	380.6	386.4	406.1	428.6	457.0	458.7
57.5°	3995.9	1299.8	446.0	357.5	360.9	368.5	377.7	395.7	419.9	451.2	452.9
58°	4010.9	1316.0	443.1	356.3	357.5	366.2	376.6	393.9	418.2	452.3	454.1
60°	4011.5	1369.8	436.7	351.1	344.2	358.6	370.2	387.6	415.3	456.4	460.4
62.5°	3869.2	1369.2	432.1	343.6	330.3	348.2	361.5	381.8	412.4	466.2	474.3
65°	3407.0	1244.2	410.1	332.0	319.3	339.0	354.0	377.7	420.5	509.0	514.2
67.5°	2664.9	1019.8	369.0	315.8	304.8	329.7	349.4	377.1	429.2	518.9	522.3
70°	1761.9	763.0	323.9	297.3	289.8	318.7	351.7	396.8	419.4	498.0	488.8
72.5°	914.5	535.6	287.5	274.2	272.4	308.9	385.2	394.5	409.5	468.5	457.0
75°	480.1	371.9	255.7	248.7	251.6	306.6	454.7	384.1	396.8	448.3	470.3
77.5°	293.8	300.2	228.5	225.6	231.4	299.6	454.1	370.8	378.3	412.4	436.7
80°	196.7	243.5	207.7	208.2	212.3	274.2	407.8	350.0	355.7	389.9	414.7
82.5°	124.4	144.0	188.6	198.4	193.2	226.2	346.5	318.7	326.8	446.0	471.4
85°	63.1	90.2	163.7	190.9	174.1	158.5	281.1	279.4	283.4	321.6	336.1
87.5°	28.9	49.7	127.8	166.6	131.3	98.9	204.2	207.1	223.3	228.5	228.5
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)