

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: P193492

Luminaire Tested: **GLEON-AF-04-LED-E1-AFL-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193492
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-04-LED-E1-AFL-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13244 lumens
Efficiency: N/A
Efficacy: 102.7 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

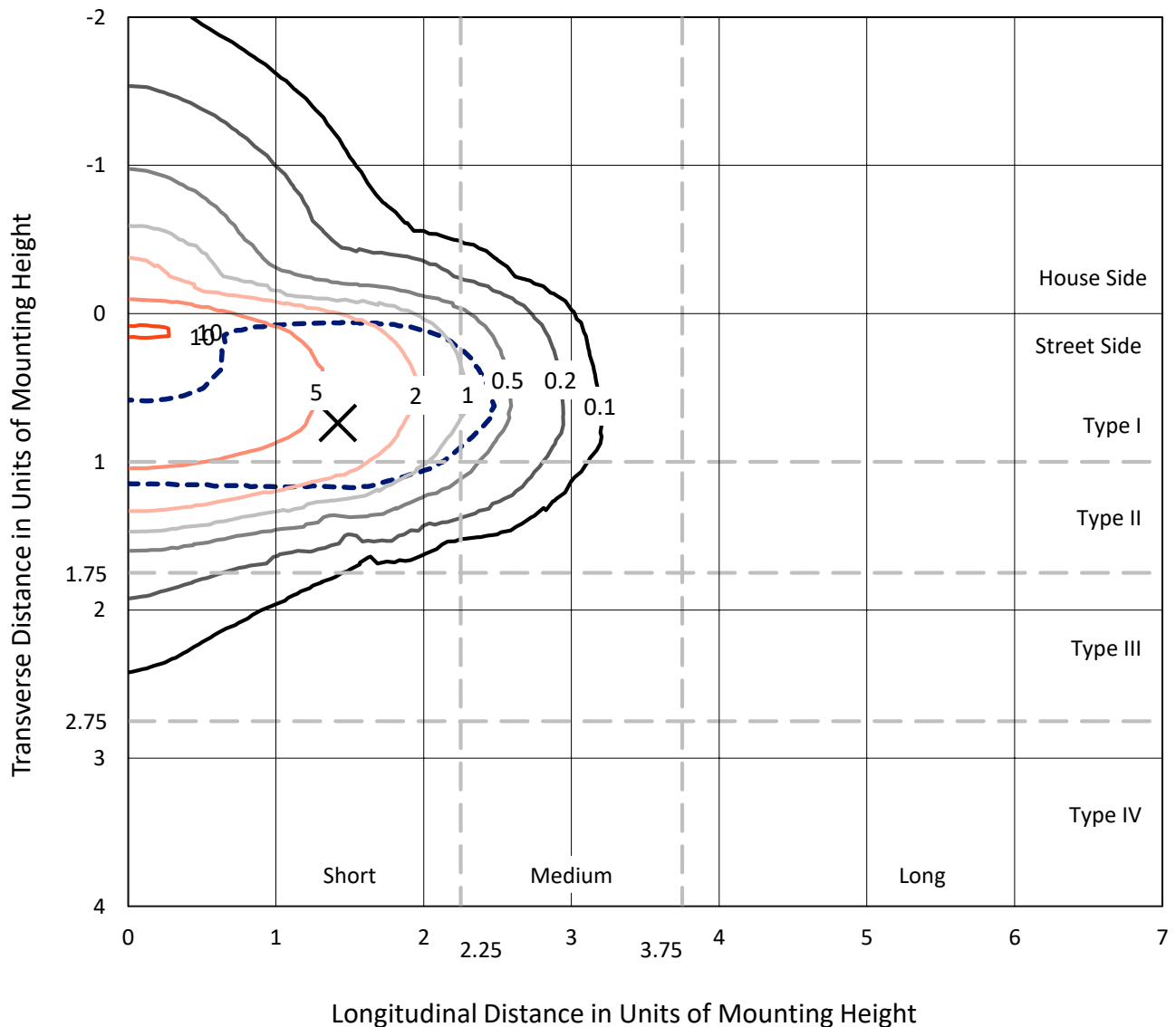
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P193492
 CATALOG NUMBER: GLEON-AF-04-LED-E1-AFL-8030-600

Iso-Footcandle Lines of Horizontal Illumination

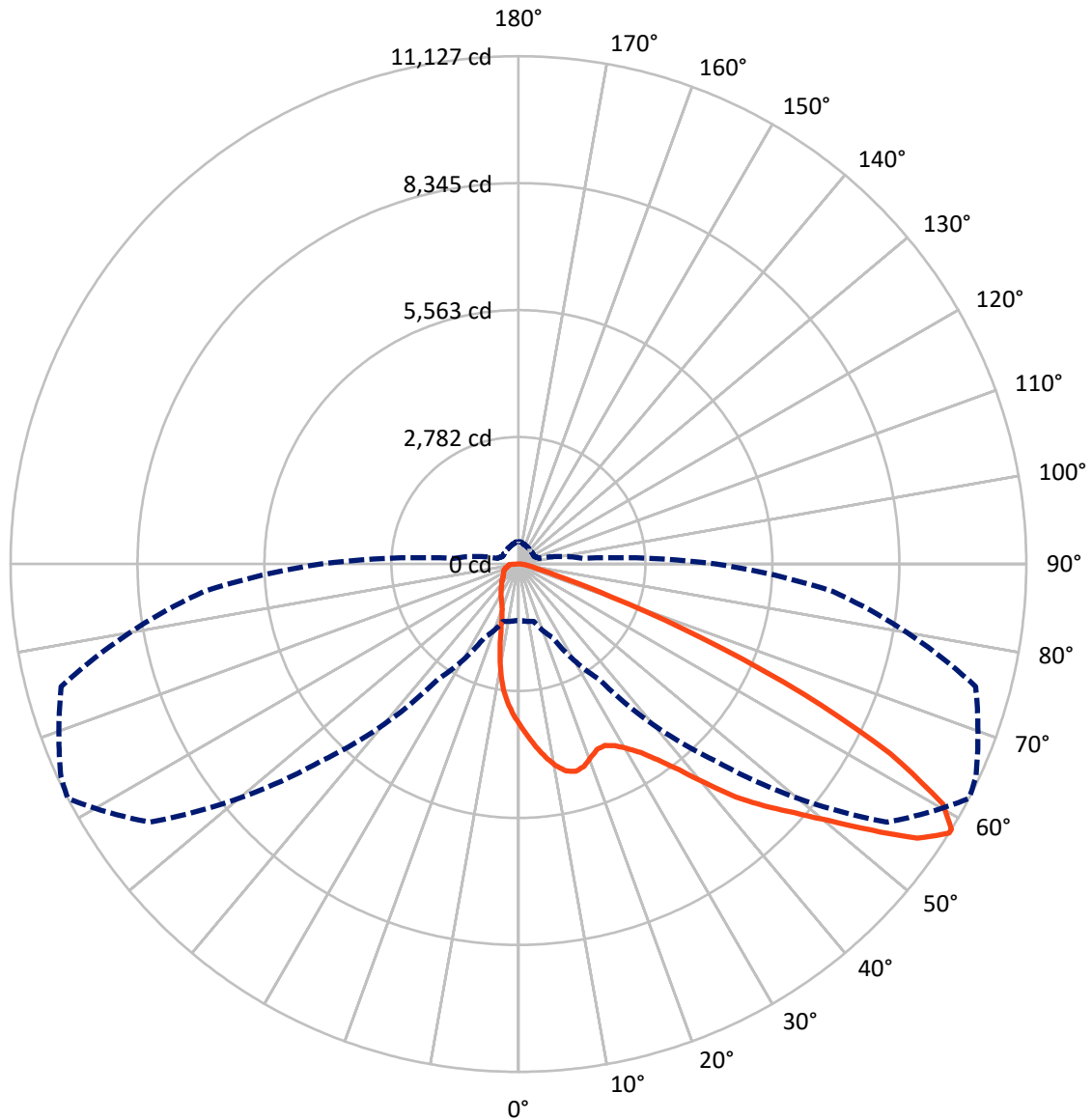
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.7 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P193492
CATALOG NUMBER: GLEON-AF-04-LED-E1-AFL-8030-600

Luminous Intensity Polar Plot



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

REPORT NUMBER: P193492

CATALOG NUMBER: GLEON-AF-04-LED-E1-AFL-8030-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2019.8	0.0	2019.8
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	11224.2	0.0	11224.2
	% Fixture	84.7	0.0	84.7
Total	Lumens	13244.0	0.0	13244.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.6	2.4
10°-20°	804.3	6.1
20°-30°	1300.1	9.8
30°-40°	2063.9	15.6
40°-50°	3019.9	22.8
50°-60°	3158.6	23.8
60°-70°	1866.1	14.1
70°-80°	525.7	4.0
80°-90°	190.9	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°	13244.0	100.0
0°-180°	13244.0	100.0

Coefficient of Utilization



REPORT NUMBER: P193492

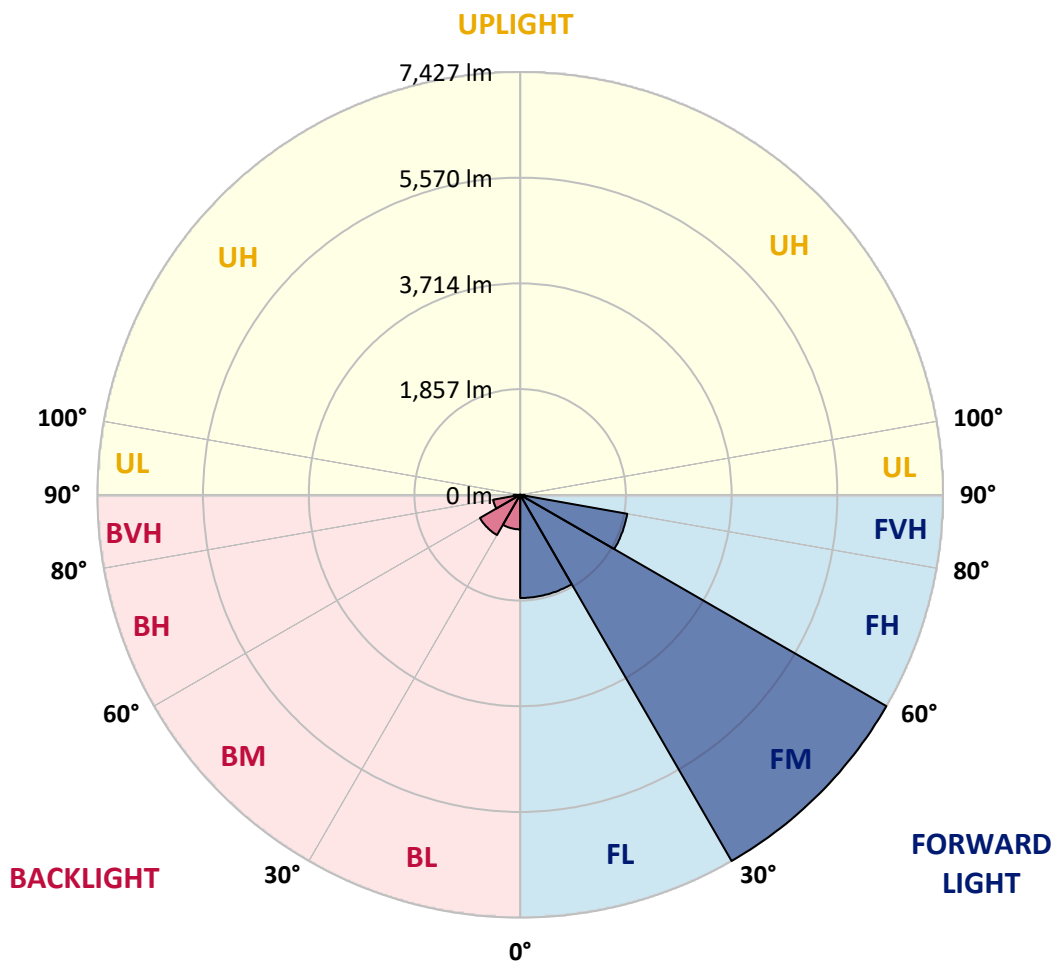
CATALOG NUMBER: GLEON-AF-04-LED-E1-AFL-8030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1811.9	13.7			
FM (30°-60°)	7427.2	56.1			
FH (60°-80°)	1909.8	14.4			G2/5000
FVH (80°-90°)	75.3	0.6			G1/100
BL (0°-30°)	607.0	4.6	B2/1000		
BM (30°-60°)	815.2	6.2	B1/1000		
BH (60°-80°)	481.9	3.6	B1/500		G1/500
BVH (80°-90°)	115.6	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: P193492

CATALOG NUMBER: GLEON-AF-04-LED-E1-AFL-8030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	3518.0	3518.0	3518.0	3518.0	3518.0	3518.0	3518.0	3518.0	3518.0	3518.0	3518.0
2.5°	4020.0	3987.6	3967.0	3948.9	3925.2	3874.7	3806.7	3763.7	3741.9	3667.7	3579.7
5°	4414.2	4385.5	4364.3	4340.0	4297.6	4218.4	4108.6	4021.3	3978.3	3829.8	3654.0
7.5°	4321.9	4333.7	4370.5	4434.8	4489.6	4479.0	4381.1	4270.1	4213.4	4006.9	3740.0
10°	3765.6	3786.2	3849.8	4000.1	4243.3	4492.8	4568.8	4492.1	4434.8	4182.2	3828.6
12.5°	3654.0	3653.3	3658.3	3698.2	3842.9	4194.0	4575.1	4652.4	4618.1	4349.3	3919.0
15°	3699.5	3700.7	3697.0	3713.8	3758.7	3897.8	4384.2	4714.2	4738.5	4517.7	4012.6
17.5°	3819.2	3816.1	3801.8	3801.8	3818.0	3872.2	4159.7	4656.8	4769.0	4666.8	4094.9
20°	4020.0	4005.7	3967.6	3932.7	3915.3	3944.6	4067.4	4524.6	4716.0	4797.1	4162.9
22.5°	4263.3	4252.0	4190.3	4115.5	4055.0	4054.3	4114.8	4409.2	4624.4	4920.0	4220.2
25°	4577.6	4559.5	4467.8	4348.1	4242.1	4201.5	4218.4	4403.6	4574.5	5053.4	4271.4
27.5°	4946.8	4913.7	4805.2	4632.5	4476.5	4394.8	4370.5	4505.2	4620.0	5218.7	4342.5
30°	5394.6	5356.5	5217.4	4992.3	4772.2	4638.1	4586.3	4685.5	4770.9	5420.1	4456.6
32.5°	5904.1	5849.2	5688.3	5440.1	5150.7	4946.2	4862.0	4923.7	4991.7	5662.7	4599.4
35°	6608.2	6542.7	6310.1	5967.7	5640.9	5359.6	5224.9	5269.8	5335.9	6024.4	4805.8
37.5°	7088.4	7059.1	6904.4	6582.6	6227.1	5903.5	5695.2	5721.3	5758.8	6476.6	5070.3
40°	7084.0	7095.9	7099.0	7102.1	6860.1	6550.2	6326.3	6298.8	6291.4	6973.0	5370.9
42.5°	6729.2	6777.8	6935.0	7253.7	7400.8	7258.6	7053.5	6974.3	6935.0	7558.0	5689.5
45°	6186.0	6212.2	6506.5	7128.9	7677.7	7960.2	7805.0	7555.5	7484.4	8095.6	5954.0
47.5°	5905.9	5934.6	6119.9	6798.4	7674.6	8527.1	8616.9	8141.7	8014.5	8563.3	6182.2
50°	5239.3	5299.1	5532.4	6223.4	7394.6	8787.8	9465.7	8840.2	8577.0	9018.6	6411.1
52.5°	4015.0	4107.3	4368.7	5277.9	6684.3	8658.7	10144.9	9687.1	9315.4	9490.1	6607.6
55°	2532.6	2601.2	2820.8	3727.5	5347.2	7987.1	10402.5	10603.3	10272.7	9936.6	6777.8
57.5°	1377.0	1407.6	1489.9	2058.0	3478.1	6502.2	10027.0	11124.6	10987.4	10315.8	6906.3
58°	1232.3	1252.9	1304.0	1783.6	3084.6	6096.2	9860.5	11126.5	11057.9	10371.3	6916.3
60°	914.3	903.7	858.1	1017.8	1716.9	4211.5	8853.9	10681.2	10882.7	10439.2	6867.6
62.5°	803.3	777.7	684.8	674.2	835.1	1940.2	6774.7	9149.5	9625.4	10051.3	6572.0
65°	754.6	727.2	607.4	568.8	602.4	820.7	3990.7	6862.0	7458.8	8875.1	5816.1
67.5°	718.4	682.9	558.2	505.2	507.6	542.6	1599.7	4321.9	4993.6	6738.5	4523.9
70°	683.5	644.9	516.4	455.3	440.9	429.1	636.1	2163.4	2772.7	4256.4	2884.4
72.5°	646.1	608.1	479.6	416.0	387.9	348.6	415.3	885.0	1236.1	2013.8	1308.4
75°	591.8	557.5	442.8	381.0	341.1	288.7	313.7	462.1	554.4	802.0	630.5
77.5°	525.1	497.0	401.6	352.4	302.5	234.5	241.4	320.6	355.5	459.0	374.8
80°	377.3	387.3	357.4	316.8	269.4	190.2	185.2	233.9	252.6	295.0	243.8
82.5°	265.1	270.7	295.6	258.8	222.6	149.7	136.6	164.6	175.9	194.0	131.6
85°	182.7	176.5	202.7	180.2	160.9	99.8	93.5	111.6	118.5	120.4	68.0
87.5°	109.8	109.8	117.2	96.7	86.7	51.8	50.5	63.6	68.0	64.9	37.4
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: P193492

CATALOG NUMBER: GLEON-AF-04-LED-E1-AFL-8030-600

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3518.0	3518.0	3518.0	3518.0	3518.0	3518.0	3518.0	3518.0	3518.0	3518.0	3518.0
2.5°	3527.4	3483.1	3388.9	3313.4	3218.0	3118.9	3063.4	3004.1	2963.6	2934.3	2981.0
5°	3554.2	3463.7	3269.2	3084.6	2880.6	2668.6	2507.7	2358.0	2253.9	2189.0	2250.1
7.5°	3596.6	3457.5	3147.6	2832.0	2465.9	2112.9	1797.4	1599.7	1484.3	1427.5	1463.1
10°	3645.2	3447.5	3004.7	2489.6	1965.7	1521.1	1285.3	1205.5	1179.3	1168.7	1173.7
12.5°	3685.8	3426.3	2829.5	2075.5	1476.2	1201.1	1133.2	1131.3	1136.9	1138.2	1140.0
15°	3714.4	3395.1	2569.4	1643.9	1180.6	1094.5	1090.8	1102.0	1112.6	1117.0	1119.4
17.5°	3733.8	3330.9	2275.7	1299.7	1057.7	1042.7	1051.5	1065.8	1077.0	1080.2	1082.7
20°	3731.9	3236.7	1925.8	1083.9	991.0	991.0	1005.9	1017.2	1017.8	1014.1	1015.9
22.5°	3712.6	3107.6	1586.6	969.1	931.7	942.3	957.3	946.7	903.0	874.4	876.2
25°	3680.1	2953.6	1295.9	896.2	876.8	895.6	891.2	811.4	749.0	720.9	720.9
27.5°	3651.5	2771.5	1072.7	832.6	822.0	845.0	767.7	695.4	669.2	656.1	651.7
30°	3630.9	2575.0	923.6	771.5	770.2	753.4	666.1	646.1	641.7	631.1	627.4
32.5°	3635.9	2376.1	828.2	717.8	722.2	644.9	617.4	621.8	618.0	606.8	601.8
35°	3677.0	2187.1	765.8	669.2	656.1	582.5	588.7	596.8	595.6	580.0	575.0
37.5°	3750.6	2008.1	724.7	628.6	572.5	551.3	561.3	573.8	570.6	560.0	556.3
40°	3828.0	1839.8	691.0	596.8	523.2	530.1	538.8	545.7	548.8	551.9	549.4
42.5°	3903.4	1663.9	649.8	564.4	502.7	510.1	513.9	520.7	537.6	549.4	548.8
45°	3948.3	1498.6	607.4	518.3	486.4	490.8	488.3	502.0	522.6	542.0	542.6
47.5°	3998.2	1370.2	573.8	475.8	470.9	474.0	466.5	480.2	498.9	522.6	525.1
50°	4058.7	1293.4	546.9	442.2	449.7	449.7	447.8	460.3	486.4	513.9	518.9
52.5°	4127.3	1278.5	524.5	417.8	428.4	427.8	429.7	448.4	477.1	503.9	508.3
55°	4210.9	1319.0	500.2	399.8	407.9	410.4	416.6	437.8	462.1	492.7	494.6
57.5°	4308.2	1401.3	480.8	385.4	389.2	397.3	407.2	426.6	452.8	486.4	488.3
58°	4324.4	1418.8	477.7	384.2	385.4	394.8	406.0	424.7	450.9	487.7	489.6
60°	4325.0	1476.8	470.9	378.6	371.1	386.7	399.1	417.8	447.8	492.1	496.4
62.5°	4171.6	1476.2	465.9	370.4	356.1	375.4	389.8	411.6	444.7	502.7	511.4
65°	3673.3	1341.5	442.2	358.0	344.3	365.5	381.7	407.2	453.4	548.8	554.4
67.5°	2873.1	1099.5	397.9	340.5	328.7	355.5	376.7	406.6	462.7	559.4	563.2
70°	1899.6	822.6	349.2	320.6	312.4	343.6	379.2	427.8	452.1	537.0	527.0
72.5°	986.0	577.5	310.0	295.6	293.7	333.0	415.3	425.3	441.5	505.2	492.7
75°	517.6	401.0	275.7	268.2	271.3	330.5	490.2	414.1	427.8	483.3	507.0
77.5°	316.8	323.7	246.3	243.2	249.5	323.0	489.6	399.8	407.9	444.7	470.9
80°	212.0	262.6	223.9	224.5	228.9	295.6	439.7	377.3	383.5	420.3	447.2
82.5°	134.1	155.3	203.3	213.9	208.3	243.8	373.6	343.6	352.4	480.8	508.3
85°	68.0	97.3	176.5	205.8	187.7	170.9	303.1	301.2	305.6	346.7	362.3
87.5°	31.2	53.6	137.8	179.6	141.6	106.6	220.1	223.3	240.7	246.3	246.3
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)