

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: P194008

Luminaire Tested: **GLEON-AF-10-LED-E1-T3-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194008
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-T3-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52751 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 640
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

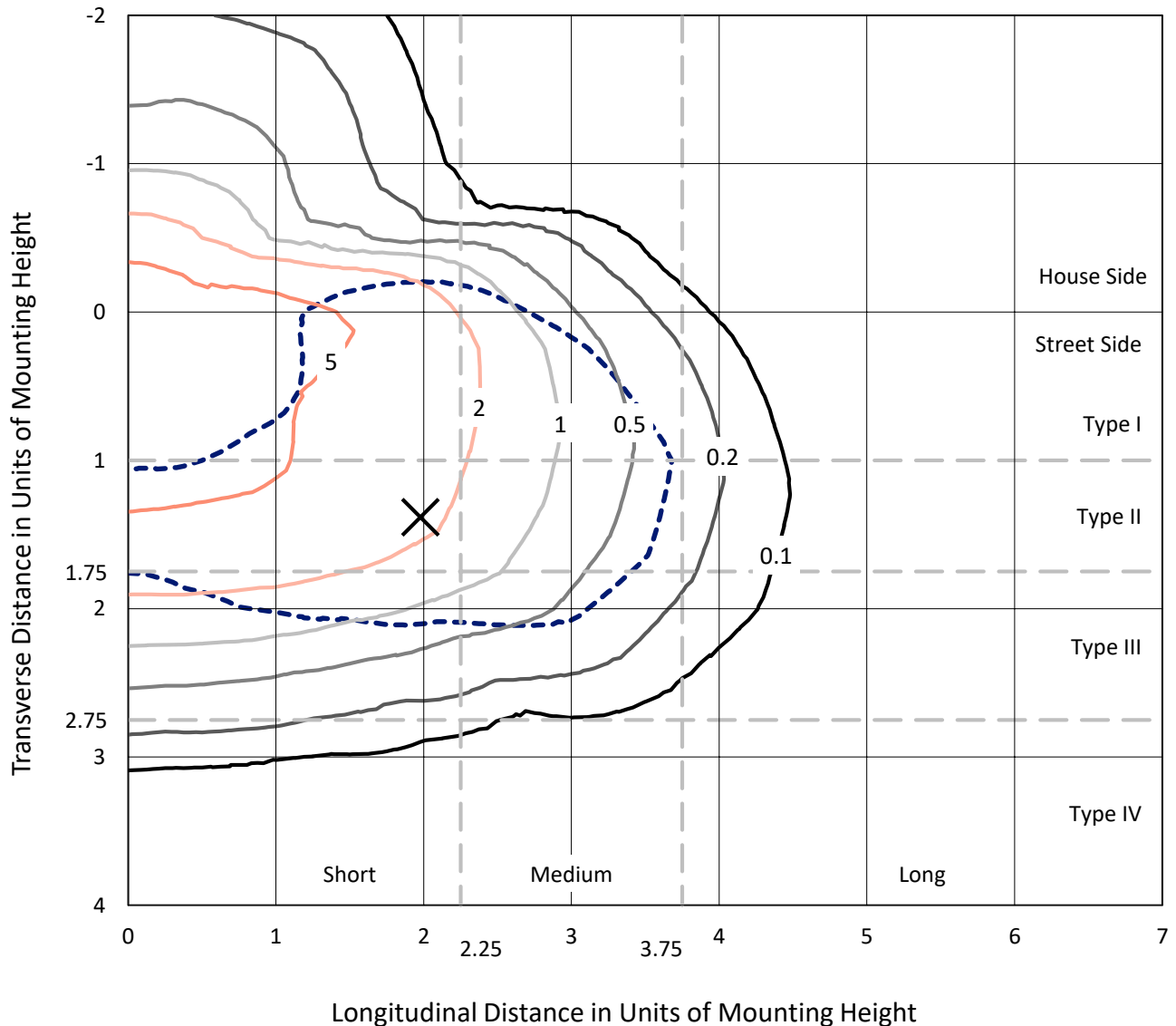


REPORT NUMBER: P194008

CATALOG NUMBER: GLEON-AF-10-LED-E1-T3-8030-1200

Iso-Footcandle Lines of Horizontal Illumination

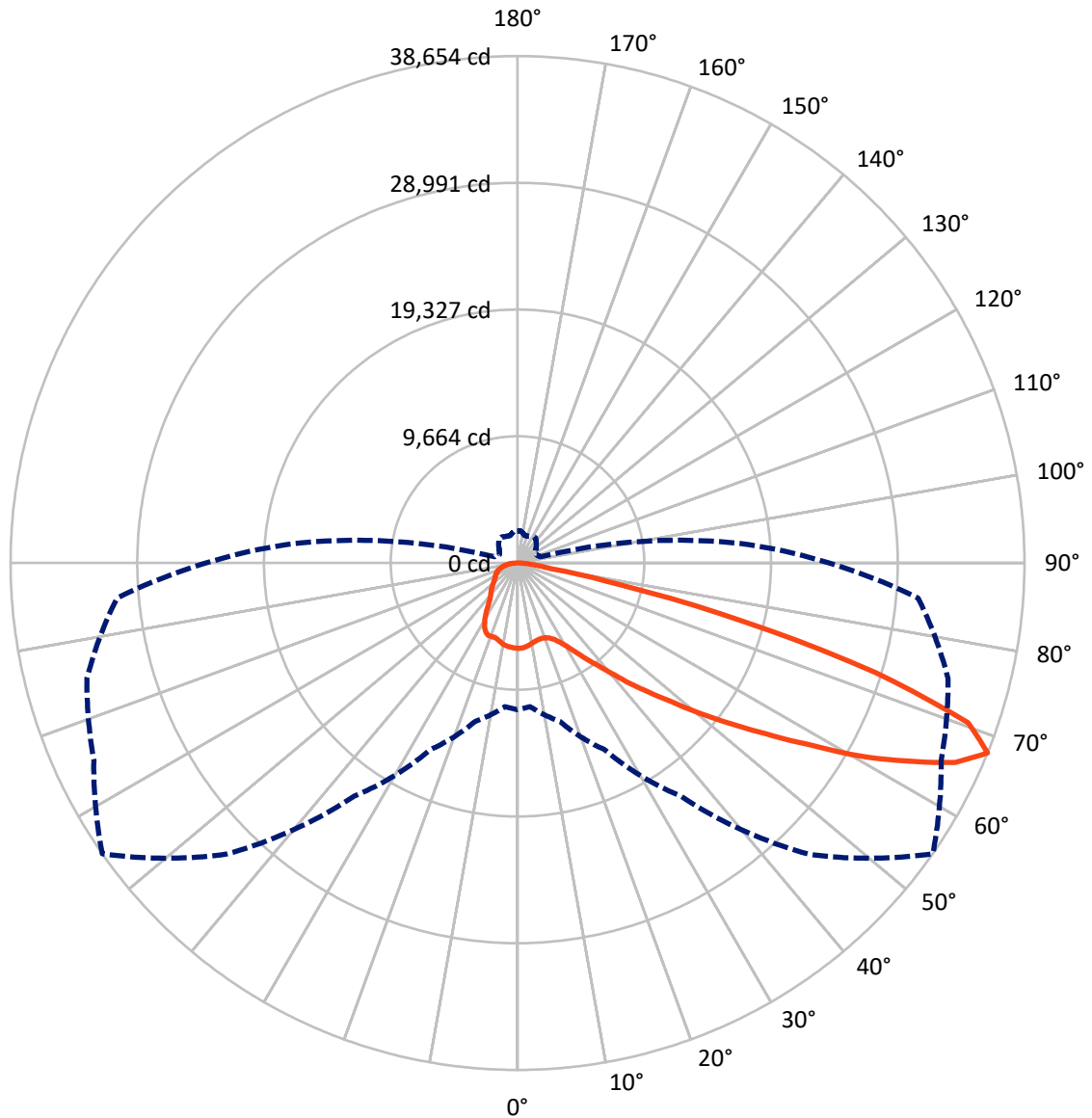
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P194008
CATALOG NUMBER: GLEON-AF-10-LED-E1-T3-8030-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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CATALOG NUMBER: GLEON-AF-10-LED-E1-T3-8030-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11395.3	0.0	11395.3
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	41355.7	0.0	41355.7
	% Fixture	78.4	0.0	78.4
Total	Lumens	52751.0	0.0	52751.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	607.2	1.2
10°-20°	1719.5	3.3
20°-30°	2880.4	5.5
30°-40°	4736.7	9.0
40°-50°	7973.3	15.1
50°-60°	12549.4	23.8
60°-70°	14976.4	28.4
70°-80°	6431.1	12.2
80°-90°	876.8	1.7
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°	52751.0	100.0
0°-180°	52751.0	100.0



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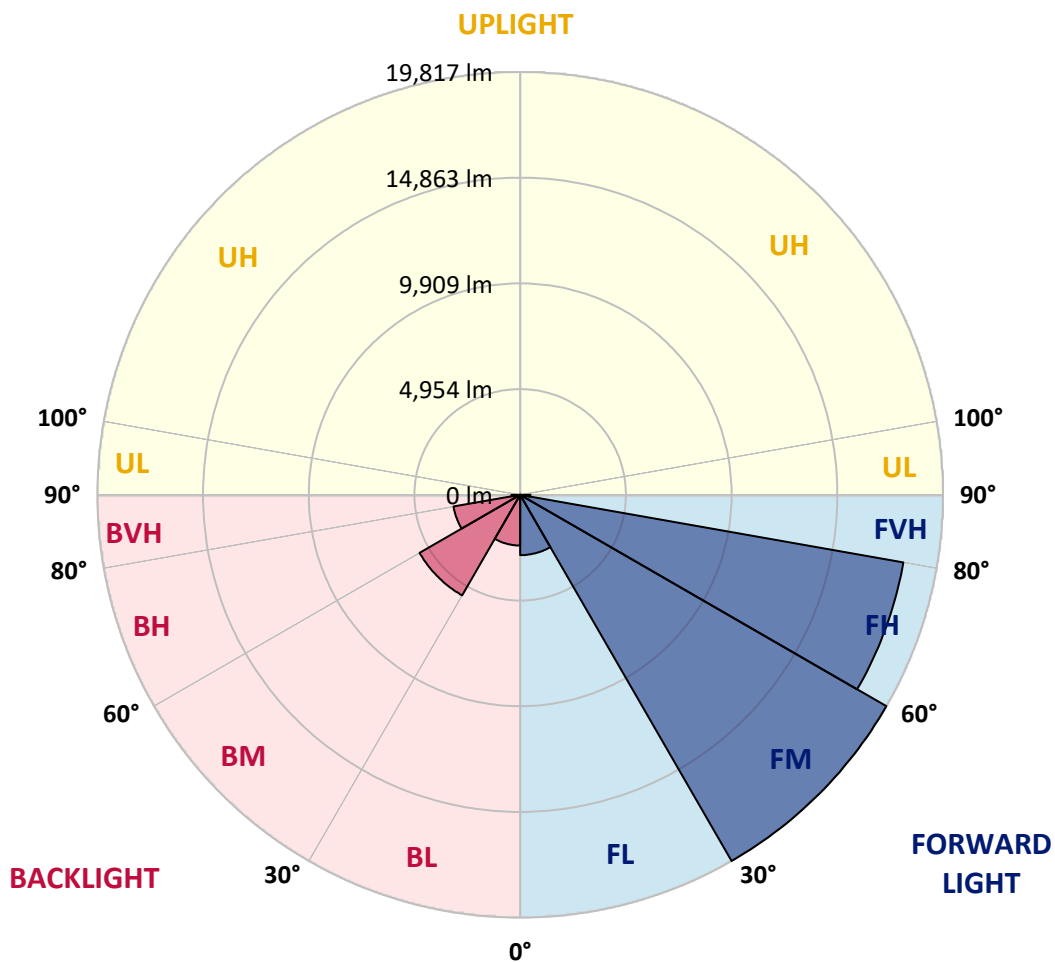
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2827.6	5.4			
FM (30°-60°)	19817.2	37.6			
FH (60°-80°)	18236.3	34.6			G5
FVH (80°-90°)	474.6	0.9			G3/500
BL (0°-30°)	2379.6	4.5	B3/2500		
BM (30°-60°)	5442.3	10.3	B4/8500		
BH (60°-80°)	3171.3	6.0	B4/5000		G4/5000
BVH (80°-90°)	402.2	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short





REPORT NUMBER: P194008

CATALOG NUMBER: GLEON-AF-10-LED-E1-T3-8030-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6504.8	6504.8	6504.8	6504.8	6504.8	6504.8	6504.8	6504.8	6504.8	6504.8	6504.8
2.5°	6448.7	6451.3	6456.4	6476.7	6494.6	6489.5	6492.0	6481.8	6479.3	6464.0	6479.3
5°	6367.2	6374.8	6377.4	6410.5	6430.9	6436.0	6428.3	6415.6	6400.3	6385.0	6392.7
7.5°	6181.2	6201.6	6204.1	6250.0	6283.1	6326.4	6329.0	6331.5	6323.9	6313.7	6329.0
10°	6064.0	6069.1	6066.5	6099.7	6125.1	6173.5	6201.6	6250.0	6270.4	6275.5	6285.7
12.5°	6056.3	6051.2	6043.6	6043.6	6036.0	6056.3	6107.3	6176.1	6224.5	6239.8	6252.5
15°	6137.9	6135.3	6109.9	6071.6	6023.2	6007.9	6051.2	6127.7	6191.4	6224.5	6237.2
17.5°	6321.3	6306.0	6265.3	6178.6	6074.2	6033.4	6038.5	6102.2	6176.1	6219.4	6232.1
20°	6657.6	6657.6	6571.0	6408.0	6222.0	6125.1	6079.3	6117.5	6188.8	6247.4	6265.3
22.5°	7238.6	7243.7	7098.4	6830.9	6517.5	6311.1	6196.5	6188.8	6272.9	6339.2	6359.5
25°	8061.5	8041.2	7837.3	7455.1	6978.7	6637.3	6438.5	6392.7	6464.0	6537.9	6563.4
27.5°	9019.5	8945.7	8703.6	8242.4	7625.8	7126.5	6820.7	6746.8	6815.6	6899.7	6925.2
30°	9967.4	9890.9	9603.0	9098.5	8413.1	7781.3	7343.0	7223.3	7320.1	7439.9	7455.1
32.5°	10915.2	10915.2	10594.1	10005.6	9259.0	8563.5	8038.6	7895.9	8056.4	8201.7	8234.8
35°	12049.0	12054.1	11743.2	11034.9	10232.3	9496.0	8917.6	8813.2	9055.2	9157.1	9236.1
37.5°	13442.7	13470.7	13070.7	12214.6	11335.6	10561.0	9873.1	9730.4	9972.5	10250.2	10505.0
40°	14948.5	14984.2	14543.4	13488.6	12609.5	11799.3	11055.3	10798.0	11200.5	11730.5	12059.2
42.5°	16385.5	16569.0	16143.5	15058.1	14112.8	13274.5	12520.4	12145.8	12650.3	13450.3	13735.7
45°	18462.0	18594.5	17853.1	16869.6	15980.4	15042.8	14044.0	13649.1	14354.8	15363.8	15422.4
47.5°	19845.5	19746.2	19369.1	18757.6	18194.5	17318.0	15814.8	15381.6	16319.3	17506.6	17177.9
50°	20581.9	20612.5	20561.5	20597.2	20617.6	20067.2	17985.6	17391.9	18510.5	19944.9	19188.2
52.5°	21269.8	21066.0	21234.2	22069.9	23078.8	22875.0	20347.5	19728.3	20859.6	22650.8	21313.1
55°	21254.5	20943.7	21491.5	22966.7	25155.4	25389.8	22999.8	22286.4	23343.8	25552.8	23565.5
57.5°	20502.9	20518.2	21361.5	23292.9	26602.6	27754.2	26077.7	25007.6	25978.3	28493.1	25621.6
60°	19468.5	19608.6	20823.9	23239.3	27761.9	29693.2	29853.7	27940.2	28559.3	31165.8	27323.6
62.5°	17799.6	17947.4	19623.9	22683.9	27586.1	31560.8	33267.9	31267.8	31257.6	32786.3	27823.0
65°	15167.6	15124.3	16884.9	20607.4	26110.8	32941.7	36659.1	34144.3	33290.8	32811.8	26819.1
67.5°	11185.3	10991.6	12502.5	15695.0	21703.0	31395.2	38654.1	35642.5	33983.8	30653.7	23751.5
70°	5804.1	5610.5	6833.5	9164.8	14273.3	24503.1	36445.1	34867.9	32452.5	25695.5	18607.3
72.5°	2481.6	2448.5	2945.4	4020.6	6904.8	14133.2	28577.2	30179.8	27845.9	19144.9	12793.0
75°	1668.9	1658.7	1844.7	2191.2	3105.9	5735.3	17883.7	21422.7	20373.0	11870.6	7195.3
77.5°	1309.6	1296.9	1406.4	1574.6	2012.8	2262.5	7936.7	11501.2	10645.1	5167.1	3149.2
80°	1024.3	1014.1	1082.9	1174.6	1447.2	1426.8	2611.6	4576.0	3541.6	1979.7	1531.3
82.5°	807.7	807.7	863.7	866.3	1026.8	973.3	1363.1	2015.4	1768.2	1154.2	937.6
85°	738.9	738.9	797.5	647.2	670.1	614.0	845.9	1195.0	1121.1	473.9	407.7
87.5°	372.0	361.8	670.1	573.3	364.3	326.1	412.8	578.4	621.7	262.4	203.8
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: P194008

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6504.8	6504.8	6504.8	6504.8	6504.8	6504.8	6504.8	6504.8	6504.8	6504.8
2.5°	6474.2	6471.7	6476.7	6479.3	6499.7	6527.7	6540.4	6558.3	6568.5	6563.4
5°	6397.8	6402.9	6423.2	6438.5	6474.2	6520.1	6545.5	6565.9	6583.8	6576.1
7.5°	6334.1	6346.8	6377.4	6390.1	6410.5	6423.2	6420.7	6428.3	6443.6	6425.8
10°	6298.4	6313.7	6336.6	6318.8	6270.4	6201.6	6137.9	6104.8	6114.9	6102.2
12.5°	6262.7	6283.1	6265.3	6181.2	6046.2	5957.0	5908.6	5913.7	5936.6	5941.7
15°	6242.3	6250.0	6173.5	6015.6	5878.0	5865.3	5890.7	5885.6	5888.2	5888.2
17.5°	6242.3	6222.0	6079.3	5921.3	5862.7	5839.8	5760.8	5661.4	5618.1	5602.8
20°	6275.5	6222.0	6048.7	5944.2	5816.8	5620.7	5411.7	5228.3	5146.7	5123.8
22.5°	6374.8	6283.1	6135.3	5954.4	5592.6	5263.9	4932.7	4713.6	4565.8	4540.3
25°	6576.1	6474.2	6306.0	5819.4	5235.9	4767.1	4390.0	4145.4	3997.6	3977.3
27.5°	6927.7	6861.5	6397.8	5521.3	4762.0	4260.1	3911.0	3722.5	3612.9	3605.3
30°	7457.7	7424.6	6351.9	5080.5	4178.5	3768.3	3600.2	3490.6	3409.1	3406.5
32.5°	8303.6	8036.1	6201.6	4542.9	3646.0	3419.3	3350.5	3284.2	3220.5	3220.5
35°	9391.5	8530.4	5916.2	3967.1	3322.5	3225.6	3139.0	3034.5	2950.5	2945.4
37.5°	10670.6	8836.1	5404.1	3503.4	3169.6	3095.7	2968.3	2812.9	2665.1	2639.6
40°	11962.4	8927.8	4683.0	3218.0	3072.8	2965.7	2810.3	2626.9	2484.2	2476.6
42.5°	13147.1	8752.0	3918.7	3021.8	2975.9	2833.3	2670.2	2507.1	2395.0	2392.5
45°	14140.8	8295.9	3276.6	2835.8	2874.0	2713.5	2568.3	2435.8	2349.2	2331.3
47.5°	15075.9	7651.3	2825.6	2639.6	2772.1	2647.3	2525.0	2400.1	2316.0	2303.3
50°	16161.3	6955.8	2509.7	2448.5	2682.9	2624.3	2560.6	2430.7	2290.6	2275.3
52.5°	17476.0	6354.4	2262.5	2280.4	2614.1	2654.9	2652.4	2517.3	2272.7	2252.3
55°	18943.6	5686.9	2076.5	2142.8	2586.1	2711.0	2675.3	2598.9	2288.0	2257.4
57.5°	20388.3	4907.2	1946.6	2038.3	2545.3	2705.9	2565.7	2456.2	2323.7	2280.4
60°	21471.1	3860.1	1847.2	1946.6	2456.2	2621.8	2446.0	2300.7	2316.0	2282.9
62.5°	21542.4	2983.6	1727.5	1867.6	2321.1	2537.7	2367.0	2232.0	2349.2	2318.6
65°	20276.1	2254.9	1612.8	1773.3	2175.9	2484.2	2290.6	2193.7	2418.0	2384.8
67.5°	17070.9	1814.1	1516.0	1676.5	2030.7	2372.1	2221.8	2158.1	2479.1	2420.5
70°	12324.2	1546.6	1421.7	1559.3	1900.7	2244.7	2160.6	2094.4	2313.5	2221.8
72.5°	7587.6	1340.2	1314.7	1403.9	1801.4	2112.2	2068.9	1974.6	2084.2	2010.3
75°	3788.7	1161.8	1195.0	1251.0	1661.2	1961.9	1916.0	1821.7	1837.0	1821.7
77.5°	1814.1	993.7	1054.8	1098.1	1480.3	1791.2	1742.8	1645.9	1628.1	1630.7
80°	1149.1	830.6	889.2	919.8	1322.4	1592.4	1544.0	1447.2	1651.0	1531.3
82.5°	718.5	675.2	690.5	746.5	1151.6	1386.1	1322.4	1235.7	1488.0	1177.1
85°	397.5	471.4	491.7	540.2	886.7	1159.3	1095.6	986.0	884.1	868.8
87.5°	237.0	280.3	287.9	323.6	596.2	838.3	741.4	703.2	583.5	580.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)