

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: P193997

Luminaire Tested: **GLEON-AF-09-LED-E1-T3-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193997  
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-09-LED-E1-T3-8030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43432 lumens  
Efficiency: N/A  
Efficacy: 86.7 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): 501  
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

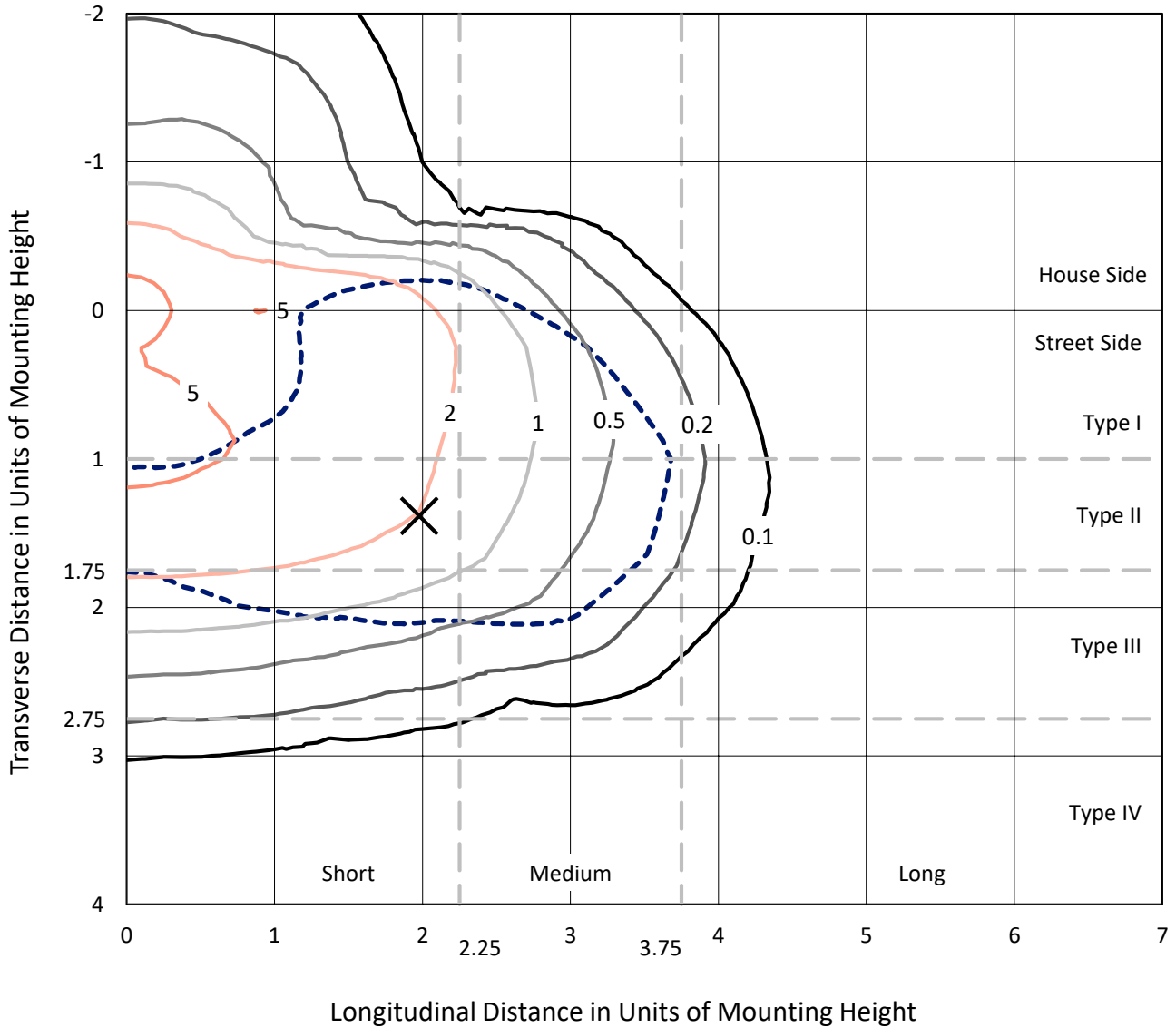


REPORT NUMBER: P193997

CATALOG NUMBER: GLEON-AF-09-LED-E1-T3-8030

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

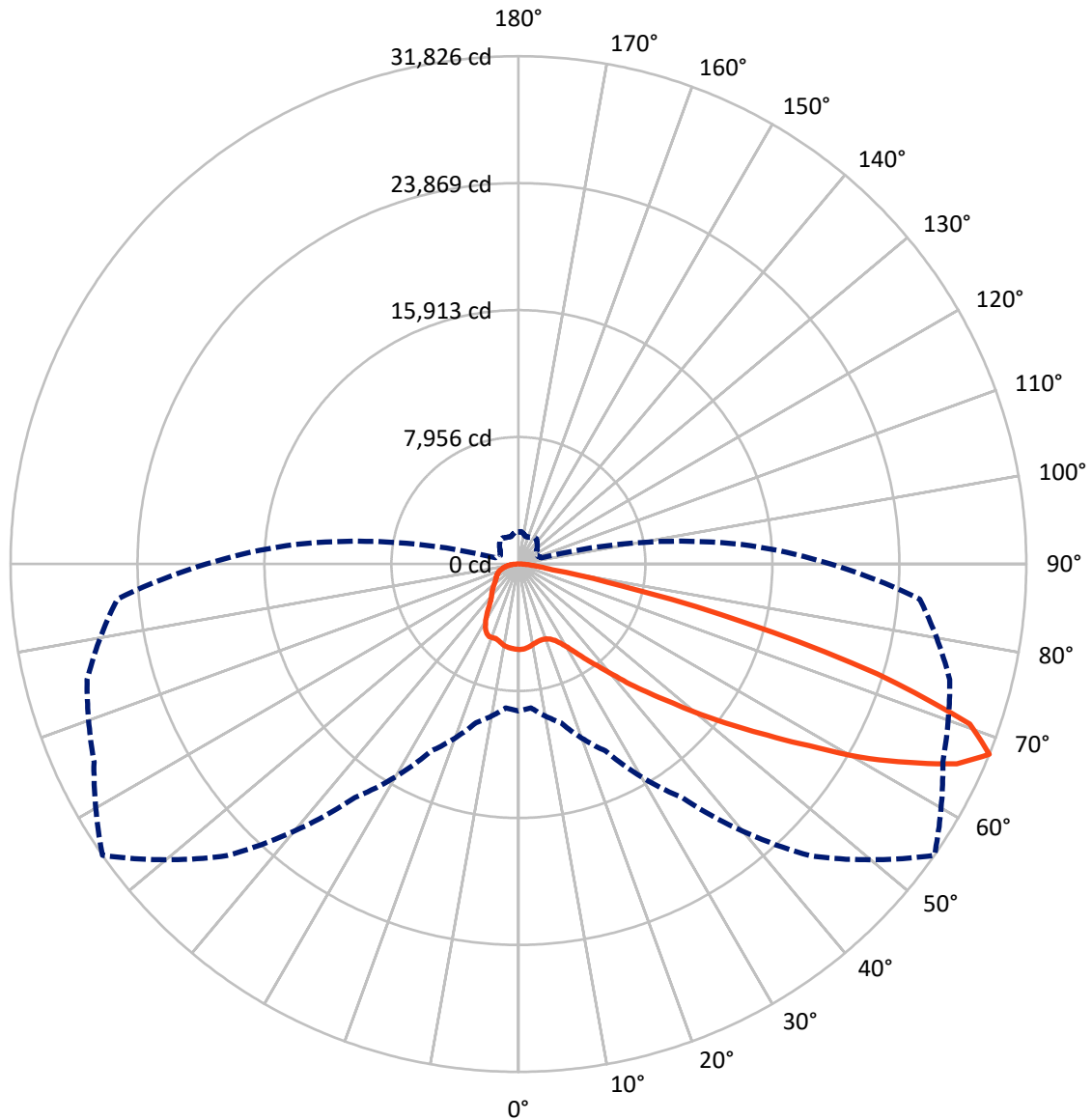


Based on 30 foot mounting height. Maximum calculated value = 6.1 fc  
 Type III - Short - Full Cutoff

REPORT NUMBER: P193997

CATALOG NUMBER: GLEON-AF-09-LED-E1-T3-8030

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P193997

CATALOG NUMBER: GLEON-AF-09-LED-E1-T3-8030

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9382.2	0.0	9382.2
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	34049.8	0.0	34049.8
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	43432.0	0.0	43432.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	499.9	1.2
10°-20°	1415.8	3.3
20°-30°	2371.6	5.5
30°-40°	3899.9	9.0
40°-50°	6564.8	15.1
50°-60°	10332.4	23.8
60°-70°	12330.7	28.4
70°-80°	5295.0	12.2
80°-90°	721.9	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°	43432.0	100.0
0°-180°	43432.0	100.0



REPORT NUMBER: P193997

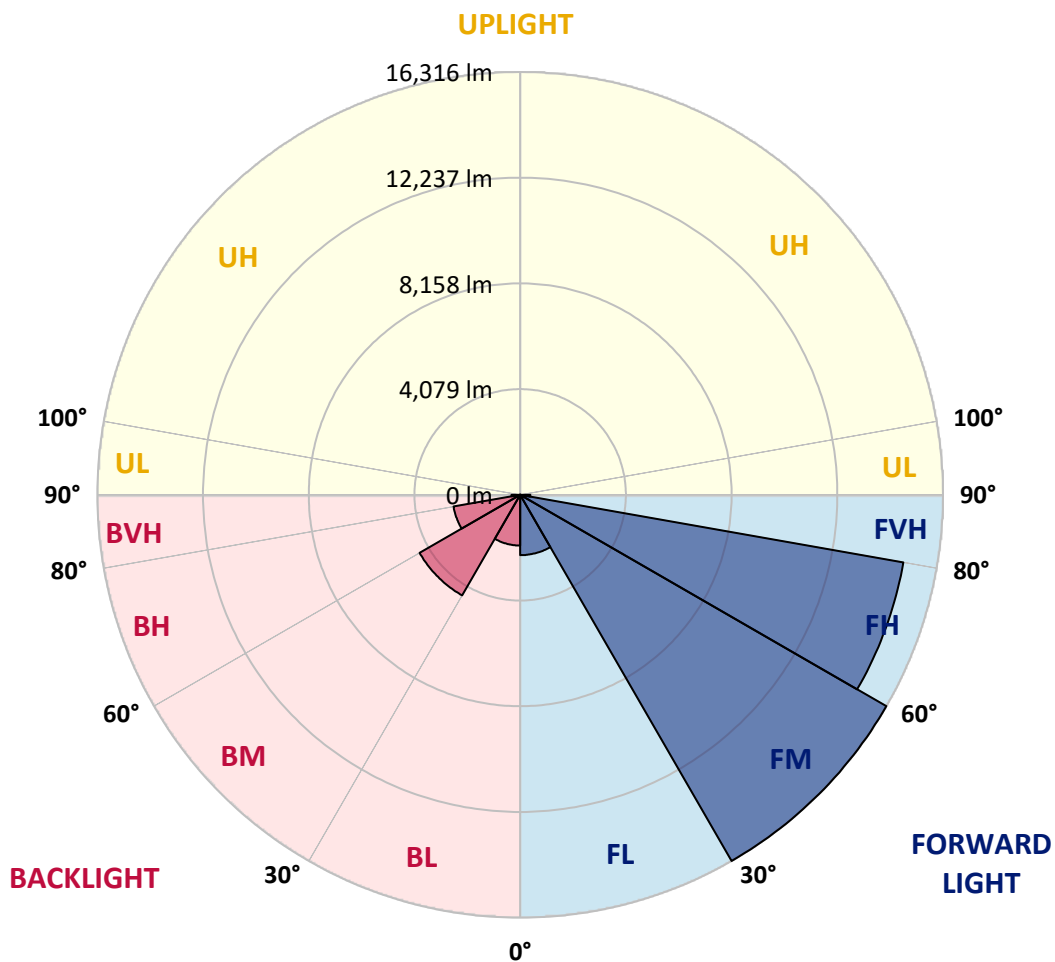
CATALOG NUMBER: GLEON-AF-09-LED-E1-T3-8030

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2328.1	5.4			
FM (30°-60°)	16316.3	37.6			
FH (60°-80°)	15014.6	34.6			G5
FVH (80°-90°)	390.8	0.9			G3/500
BL (0°-30°)	1959.2	4.5	B3/2500		
BM (30°-60°)	4480.9	10.3	B3/5000		
BH (60°-80°)	2611.0	6.0	B4/5000		G4/5000
BVH (80°-90°)	331.1	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: P193997

CATALOG NUMBER: GLEON-AF-09-LED-E1-T3-8030

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5355.6	5355.6	5355.6	5355.6	5355.6	5355.6	5355.6	5355.6	5355.6	5355.6	5355.6
2.5°	5309.5	5311.6	5315.8	5332.6	5347.2	5343.1	5345.2	5336.8	5334.7	5322.1	5334.7
5°	5242.4	5248.7	5250.8	5278.0	5294.8	5299.0	5292.7	5282.2	5269.6	5257.0	5263.3
7.5°	5089.2	5106.0	5108.1	5145.9	5173.1	5208.8	5210.9	5213.0	5206.7	5198.3	5210.9
10°	4992.7	4996.9	4994.8	5022.1	5043.1	5082.9	5106.0	5145.9	5162.6	5166.8	5175.2
12.5°	4986.4	4982.2	4975.9	4975.9	4969.6	4986.4	5028.4	5085.0	5124.9	5137.5	5148.0
15°	5053.6	5051.5	5030.5	4999.0	4959.2	4946.6	4982.2	5045.2	5097.6	5124.9	5135.4
17.5°	5204.6	5192.0	5158.4	5087.1	5001.1	4967.6	4971.7	5024.2	5085.0	5120.7	5131.2
20°	5481.5	5481.5	5410.2	5275.9	5122.8	5043.1	5005.3	5036.8	5095.5	5143.8	5158.4
22.5°	5959.8	5964.0	5844.4	5624.2	5366.1	5196.2	5101.8	5095.5	5164.7	5219.3	5236.1
25°	6637.4	6620.6	6452.8	6138.1	5745.8	5464.7	5301.1	5263.3	5322.1	5382.9	5403.9
27.5°	7426.2	7365.3	7166.0	6786.3	6278.7	5867.5	5615.8	5554.9	5611.6	5680.8	5701.8
30°	8206.5	8143.6	7906.5	7491.2	6926.9	6406.6	6045.8	5947.2	6026.9	6125.5	6138.1
32.5°	8986.9	8986.9	8722.6	8238.0	7623.3	7050.6	6618.5	6501.0	6633.2	6752.8	6780.0
35°	9920.4	9924.6	9668.7	9085.5	8424.7	7818.4	7342.2	7256.2	7455.5	7539.4	7604.5
37.5°	11067.9	11091.0	10761.6	10056.8	9333.0	8695.3	8128.9	8011.4	8210.7	8439.4	8649.2
40°	12307.7	12337.1	11974.1	11105.7	10381.9	9714.8	9102.3	8890.4	9221.9	9658.2	9928.8
42.5°	13490.8	13641.9	13291.6	12397.9	11619.6	10929.4	10308.5	10000.1	10415.5	11074.2	11309.1
45°	15200.5	15309.6	14699.2	13889.4	13157.3	12385.3	11563.0	11237.8	11818.9	12649.6	12697.9
47.5°	16339.6	16257.8	15947.3	15443.9	14980.3	14258.6	13020.9	12664.3	13436.3	14413.9	14143.3
50°	16945.9	16971.1	16929.1	16958.5	16975.3	16522.1	14808.3	14319.5	15240.4	16421.4	15798.4
52.5°	17512.3	17344.5	17482.9	18171.0	19001.7	18833.9	16752.9	16243.1	17174.5	18649.3	17548.0
55°	17499.7	17243.8	17694.8	18909.4	20711.4	20904.4	18936.7	18349.3	19219.9	21038.7	19402.4
57.5°	16880.9	16893.4	17587.8	19177.9	21903.0	22851.2	21470.8	20589.7	21389.0	23459.5	21095.3
60°	16029.2	16144.5	17145.2	19133.9	22857.4	24447.6	24579.7	23004.3	23514.0	25660.1	22496.6
62.5°	14655.1	14776.8	16157.1	18676.6	22712.7	25985.2	27390.8	25744.0	25735.6	26994.3	22907.8
65°	12488.1	12452.4	13902.0	16966.9	21498.1	27122.2	30182.9	28112.4	27409.6	27015.2	22081.3
67.5°	9209.3	9049.8	10293.8	12922.3	17868.9	25848.9	31825.5	29345.9	27980.2	25238.4	19555.5
70°	4778.7	4619.3	5626.3	7545.7	11751.8	20174.4	30006.7	28708.2	26719.5	21156.1	15320.1
72.5°	2043.2	2016.0	2425.0	3310.3	5685.0	11636.4	23528.7	24848.2	22926.7	15762.7	10533.0
75°	1374.0	1365.7	1518.8	1804.1	2557.2	4722.1	14724.3	17638.2	16773.9	9773.6	5924.1
77.5°	1078.3	1067.8	1158.0	1296.4	1657.2	1862.8	6534.6	9469.4	8764.5	4254.3	2592.9
80°	843.3	834.9	891.6	967.1	1191.5	1174.8	2150.2	3767.6	2915.9	1630.0	1260.8
82.5°	665.0	665.0	711.1	713.2	845.4	801.4	1122.3	1659.3	1455.9	950.3	772.0
85°	608.4	608.4	656.6	532.8	551.7	505.6	696.5	983.9	923.0	390.2	335.6
87.5°	306.3	297.9	551.7	472.0	300.0	268.5	339.8	476.2	511.9	216.1	167.8
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: P193997

CATALOG NUMBER: GLEON-AF-09-LED-E1-T3-8030

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5355.6	5355.6	5355.6	5355.6	5355.6	5355.6	5355.6	5355.6	5355.6	5355.6
2.5°	5330.5	5328.4	5332.6	5334.7	5351.4	5374.5	5385.0	5399.7	5408.1	5403.9
5°	5267.5	5271.7	5288.5	5301.1	5330.5	5368.2	5389.2	5406.0	5420.7	5414.4
7.5°	5215.1	5225.6	5250.8	5261.2	5278.0	5288.5	5286.4	5292.7	5305.3	5290.6
10°	5185.7	5198.3	5217.2	5202.5	5162.6	5106.0	5053.6	5026.3	5034.7	5024.2
12.5°	5156.4	5173.1	5158.4	5089.2	4978.0	4904.6	4864.8	4869.0	4887.8	4892.0
15°	5139.6	5145.9	5082.9	4952.9	4839.6	4829.1	4850.1	4845.9	4848.0	4848.0
17.5°	5139.6	5122.8	5005.3	4875.2	4827.0	4808.1	4743.1	4661.3	4625.6	4613.0
20°	5166.8	5122.8	4980.1	4894.1	4789.2	4627.7	4455.7	4304.7	4237.5	4218.6
22.5°	5248.7	5173.1	5051.5	4902.5	4604.6	4334.0	4061.3	3880.9	3759.2	3738.2
25°	5414.4	5330.5	5192.0	4791.3	4310.9	3925.0	3614.5	3413.1	3291.4	3274.6
27.5°	5703.9	5649.3	5267.5	4545.9	3920.8	3507.5	3220.1	3064.9	2974.7	2968.4
30°	6140.2	6112.9	5229.8	4183.0	3440.4	3102.6	2964.2	2874.0	2806.8	2804.7
32.5°	6836.7	6616.4	5106.0	3740.3	3001.9	2815.2	2758.6	2704.0	2651.6	2651.6
35°	7732.4	7023.4	4871.1	3266.2	2735.5	2655.8	2584.5	2498.5	2429.2	2425.0
37.5°	8785.5	7275.1	4449.4	2884.5	2609.6	2548.8	2443.9	2316.0	2194.3	2173.3
40°	9849.1	7350.6	3855.7	2649.5	2529.9	2441.8	2313.9	2162.8	2045.3	2039.0
42.5°	10824.6	7205.9	3226.4	2488.0	2450.2	2332.7	2198.5	2064.2	1971.9	1969.8
45°	11642.7	6830.4	2697.7	2334.8	2366.3	2234.1	2114.6	2005.5	1934.2	1919.5
47.5°	12412.6	6299.6	2326.4	2173.3	2282.4	2179.6	2078.9	1976.1	1906.9	1896.4
50°	13306.2	5726.9	2066.3	2016.0	2209.0	2160.7	2108.3	2001.3	1885.9	1873.3
52.5°	14388.7	5231.9	1862.8	1877.5	2152.3	2185.9	2183.8	2072.6	1871.2	1854.4
55°	15597.0	4682.3	1709.7	1764.2	2129.2	2232.0	2202.7	2139.7	1883.8	1858.6
57.5°	16786.5	4040.3	1602.7	1678.2	2095.7	2227.8	2112.5	2022.3	1913.2	1877.5
60°	17678.0	3178.1	1520.9	1602.7	2022.3	2158.6	2013.9	1894.3	1906.9	1879.6
62.5°	17736.8	2456.5	1422.3	1537.7	1911.1	2089.4	1948.8	1837.7	1934.2	1909.0
65°	16694.2	1856.5	1327.9	1460.1	1791.5	2045.3	1885.9	1806.2	1990.8	1963.5
67.5°	14055.1	1493.6	1248.2	1380.3	1671.9	1953.0	1829.3	1776.8	2041.1	1992.9
70°	10147.0	1273.4	1170.6	1283.8	1564.9	1848.1	1778.9	1724.4	1904.8	1829.3
72.5°	6247.2	1103.4	1082.5	1155.9	1483.1	1739.1	1703.4	1625.8	1716.0	1655.2
75°	3119.4	956.6	983.9	1030.0	1367.8	1615.3	1577.5	1499.9	1512.5	1499.9
77.5°	1493.6	818.1	868.5	904.1	1218.8	1474.7	1434.9	1355.2	1340.5	1342.6
80°	946.1	683.9	732.1	757.3	1088.7	1311.1	1271.3	1191.5	1359.4	1260.8
82.5°	591.6	555.9	568.5	614.7	948.2	1141.2	1088.7	1017.4	1225.1	969.2
85°	327.3	388.1	404.9	444.7	730.0	954.5	902.0	811.8	727.9	715.3
87.5°	195.1	230.8	237.0	266.4	490.9	690.2	610.5	579.0	480.4	478.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)