

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: P191458

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191458  
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  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 60282.5 lumens  
Efficiency: N/A  
Efficacy: 108.0 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): 558  
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

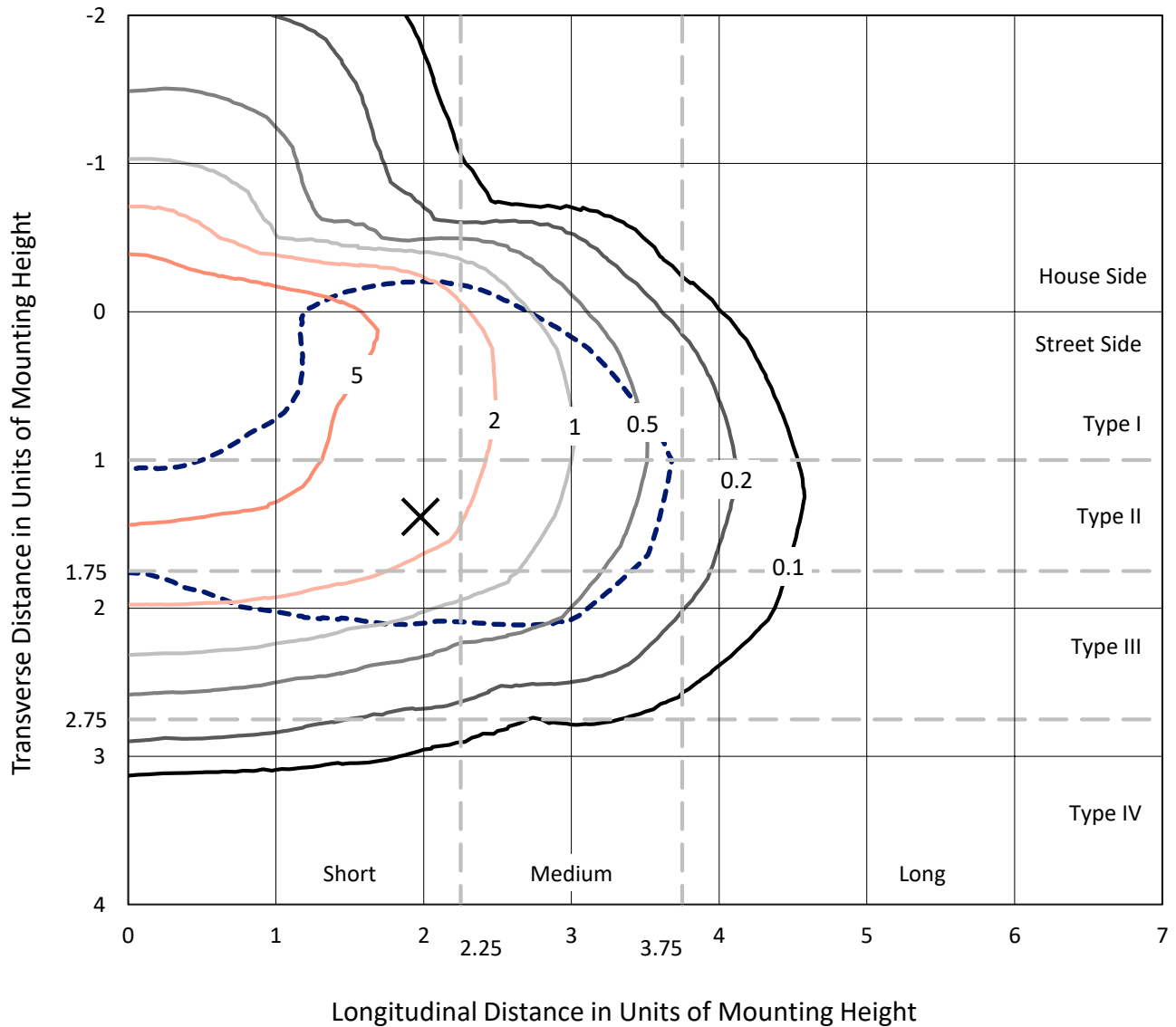


REPORT NUMBER: P191458

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

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

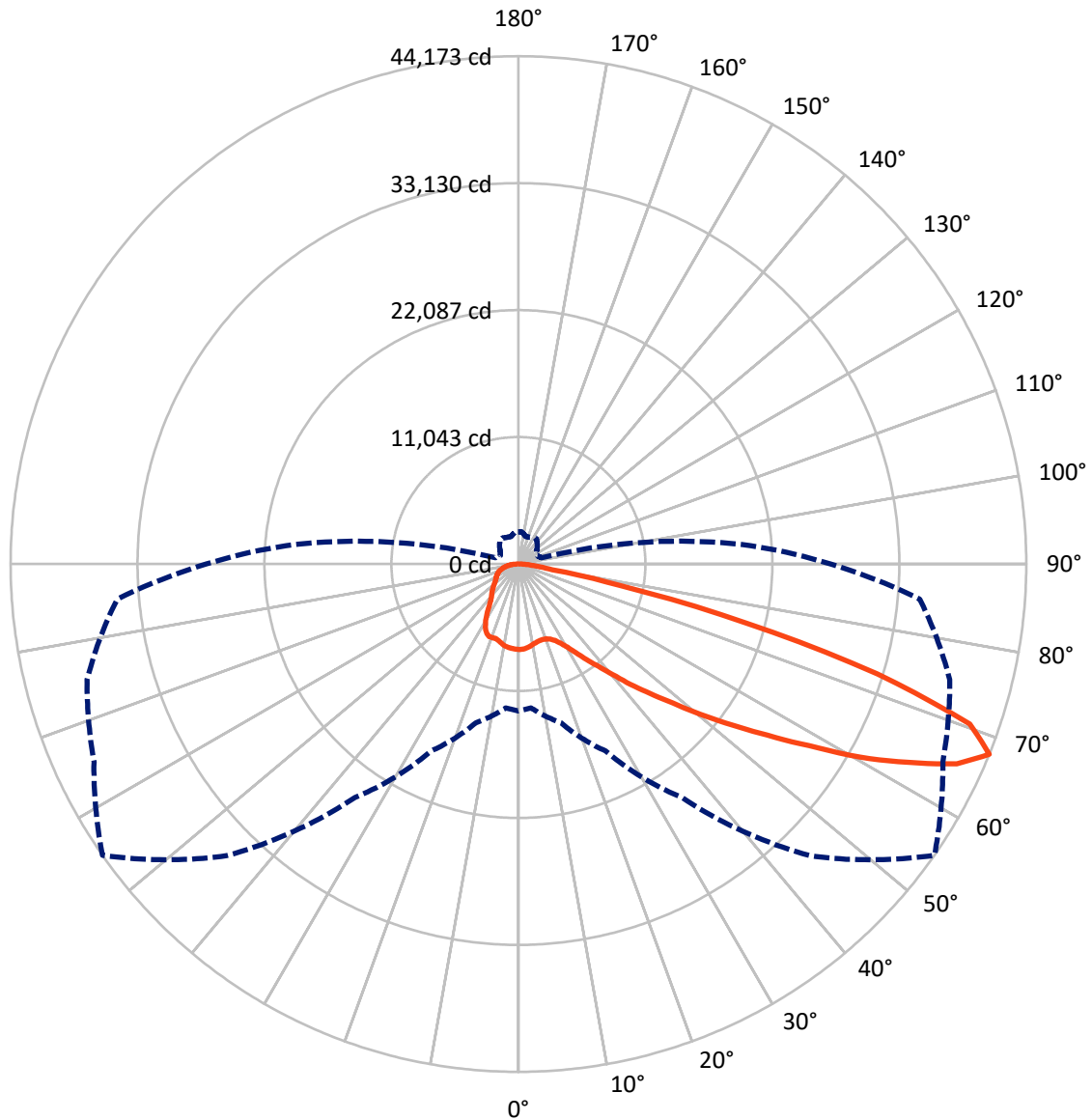


Based on 30 foot mounting height. Maximum calculated value = 8.5 fc  
 Type III - Short - Full Cutoff

REPORT NUMBER: P191458

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

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P191458

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

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13022.3	0.0	13022.3
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	47260.2	0.0	47260.2
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	60282.5	0.0	60282.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	693.8	1.2
10°-20°	1965.0	3.3
20°-30°	3291.7	5.5
30°-40°	5413.0	9.0
40°-50°	9111.7	15.1
50°-60°	14341.2	23.8
60°-70°	17114.7	28.4
70°-80°	7349.4	12.2
80°-90°	1002.0	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°	60282.5	100.0
0°-180°	60282.5	100.0



REPORT NUMBER: P191458

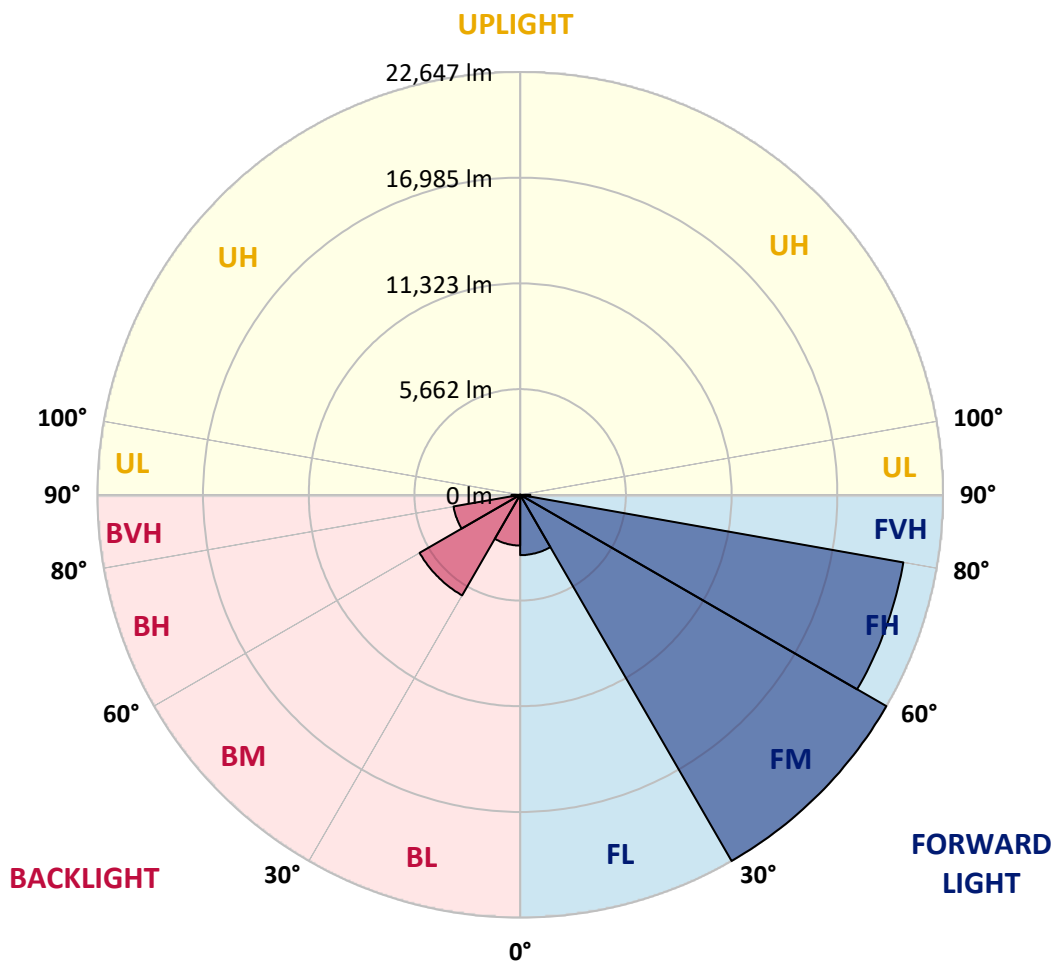
CATALOG NUMBER: GLEON-AF-10-LED-E1-T3

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3231.3	5.4			
FM	(30°-60°)	22646.6	37.6			
FH	(60°-80°)	20839.9	34.6			G5
FVH	(80°-90°)	542.4	0.9			G4/750
BL	(0°-30°)	2719.3	4.5	B4/5000		
BM	(30°-60°)	6219.3	10.3	B4/8500		
BH	(60°-80°)	3624.1	6.0	B4/5000		G4/5000
BVH	(80°-90°)	459.6	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: P191458

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

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7433.5	7433.5	7433.5	7433.5	7433.5	7433.5	7433.5	7433.5	7433.5	7433.5	7433.5
2.5°	7369.4	7372.3	7378.1	7401.5	7421.8	7416.0	7419.0	7407.3	7404.3	7386.9	7404.3
5°	7276.2	7284.9	7287.9	7325.8	7349.1	7354.9	7346.1	7331.6	7314.1	7296.6	7305.4
7.5°	7063.7	7087.0	7089.9	7142.3	7180.2	7229.7	7232.6	7235.5	7226.7	7215.1	7232.6
10°	6929.8	6935.6	6932.6	6970.5	6999.6	7055.0	7087.0	7142.3	7165.6	7171.4	7183.1
12.5°	6921.1	6915.2	6906.5	6906.5	6897.8	6921.1	6979.3	7057.8	7113.2	7130.7	7145.2
15°	7014.2	7011.3	6982.2	6938.5	6883.2	6865.7	6915.2	7002.6	7075.3	7113.2	7127.7
17.5°	7223.9	7206.4	7159.8	7060.8	6941.4	6894.8	6900.6	6973.5	7057.8	7107.4	7122.0
20°	7608.2	7608.2	7509.2	7322.9	7110.3	6999.6	6947.3	6990.9	7072.5	7139.4	7159.8
22.5°	8272.1	8277.9	8111.9	7806.1	7448.0	7212.2	7081.2	7072.5	7168.5	7244.2	7267.6
25°	9212.5	9189.3	8956.2	8519.5	7975.0	7584.9	7357.8	7305.4	7386.9	7471.3	7500.5
27.5°	10307.4	10222.9	9946.3	9419.2	8714.6	8143.9	7794.6	7710.1	7788.7	7884.8	7914.0
30°	11390.5	11303.1	10974.1	10397.6	9614.3	8892.2	8391.5	8254.6	8365.2	8502.1	8519.5
32.5°	12473.6	12473.6	12106.7	11434.1	10581.0	9786.2	9186.3	9023.2	9206.7	9372.7	9410.5
35°	13769.3	13775.1	13419.9	12610.4	11693.2	10851.8	10190.8	10071.5	10348.1	10464.6	10554.8
37.5°	15362.0	15394.0	14936.8	13958.6	12954.0	12068.9	11282.7	11119.7	11396.3	11713.6	12004.8
40°	17082.8	17123.5	16619.8	15414.3	14409.8	13483.9	12633.7	12339.7	12799.7	13405.4	13780.9
42.5°	18724.9	18934.6	18448.3	17208.0	16127.7	15169.7	14307.9	13879.9	14456.4	15370.7	15696.8
45°	21098.0	21249.3	20402.0	19278.1	18262.0	17190.5	16049.1	15597.9	16404.3	17557.3	17624.3
47.5°	22679.0	22565.5	22134.5	21435.7	20792.2	19790.6	18072.7	17577.8	18649.2	20006.1	19630.4
50°	23520.5	23555.4	23497.2	23537.9	23561.2	22932.3	20553.4	19875.0	21153.3	22792.6	21927.8
52.5°	24306.6	24073.7	24265.8	25220.9	26373.9	26141.0	23252.6	22545.0	23837.8	25884.7	24356.2
55°	24289.1	23933.9	24559.9	26245.7	28746.9	29014.8	26283.6	25468.4	26676.7	29201.2	26930.0
57.5°	23430.2	23447.7	24411.4	26618.5	30400.8	31716.8	29800.9	28578.1	29687.4	32561.1	29279.7
60°	22248.1	22408.2	23797.1	26557.3	31725.5	33932.6	34116.0	31929.4	32636.9	35615.6	31224.8
62.5°	20340.9	20509.8	22425.6	25922.6	31524.7	36066.8	38017.7	35732.0	35720.3	37467.3	31795.5
65°	17333.2	17283.7	19295.6	23549.6	29838.8	37645.0	41893.1	39019.2	38043.8	37496.5	30648.2
67.5°	12782.2	12560.9	14287.6	17935.9	24801.5	35877.5	44173.0	40731.3	38835.8	35030.2	27142.6
70°	6632.8	6411.4	7809.1	10473.3	16311.2	28001.5	41648.5	39846.2	37086.0	29364.2	21263.9
72.5°	2835.9	2798.1	3365.9	4594.6	7890.6	16151.1	32657.3	34488.7	31821.6	21878.3	14619.5
75°	1907.2	1895.5	2108.1	2504.1	3549.3	6554.1	20437.0	24481.3	23281.7	13565.5	8222.6
77.5°	1496.6	1482.1	1607.3	1799.4	2300.2	2585.6	9069.9	13143.3	12164.9	5904.9	3598.8
80°	1170.5	1158.8	1237.5	1342.3	1653.8	1630.6	2984.5	5229.3	4047.2	2262.4	1750.0
82.5°	923.0	923.0	987.0	990.0	1173.4	1112.3	1557.7	2303.2	2020.7	1319.0	1071.5
85°	844.3	844.3	911.3	739.6	765.8	701.7	966.7	1365.5	1281.1	541.6	465.9
87.5°	425.1	413.5	765.8	655.1	416.3	372.7	471.7	660.9	710.4	299.9	232.9
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: P191458

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

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7433.5	7433.5	7433.5	7433.5	7433.5	7433.5	7433.5	7433.5	7433.5	7433.5
2.5°	7398.6	7395.6	7401.5	7404.3	7427.6	7459.7	7474.3	7494.6	7506.3	7500.5
5°	7311.2	7317.1	7340.3	7357.8	7398.6	7451.0	7480.1	7503.3	7523.7	7515.0
7.5°	7238.4	7252.9	7287.9	7302.4	7325.8	7340.3	7337.4	7346.1	7363.6	7343.3
10°	7197.7	7215.1	7241.4	7220.9	7165.6	7087.0	7014.2	6976.3	6988.0	6973.5
12.5°	7156.9	7180.2	7159.8	7063.7	6909.4	6807.4	6752.2	6758.0	6784.2	6790.0
15°	7133.5	7142.3	7055.0	6874.4	6717.2	6702.7	6731.7	6726.0	6728.9	6728.9
17.5°	7133.5	7110.3	6947.3	6766.7	6699.7	6673.5	6583.3	6469.8	6420.2	6402.8
20°	7171.4	7110.3	6912.3	6792.9	6647.3	6423.1	6184.4	5974.7	5881.6	5855.4
22.5°	7284.9	7180.2	7011.3	6804.6	6391.1	6015.5	5637.0	5386.6	5217.7	5188.6
25°	7515.0	7398.6	7206.4	6650.2	5983.4	5447.7	5016.8	4737.3	4568.4	4545.1
27.5°	7916.8	7841.1	7311.2	6309.6	5441.9	4868.3	4469.4	4253.9	4128.7	4120.0
30°	8522.4	8484.6	7258.8	5805.9	4775.1	4306.3	4114.2	3989.0	3895.8	3892.9
32.5°	9489.1	9183.4	7087.0	5191.5	4166.6	3907.5	3828.8	3753.1	3680.4	3680.4
35°	10732.4	9748.3	6760.9	4533.5	3796.8	3686.2	3587.2	3467.8	3371.7	3365.9
37.5°	12194.1	10097.6	6175.7	4003.5	3622.2	3537.7	3392.1	3214.5	3045.6	3016.5
40°	13670.3	10202.5	5351.7	3677.4	3511.5	3389.1	3211.6	3002.0	2838.9	2830.1
42.5°	15024.2	10001.6	4478.2	3453.3	3400.8	3237.7	3051.5	2865.1	2737.0	2734.0
45°	16159.8	9480.4	3744.4	3240.7	3284.4	3101.0	2934.9	2783.6	2684.5	2664.2
47.5°	17228.3	8743.8	3229.0	3016.5	3167.9	3025.2	2885.4	2742.8	2646.7	2632.2
50°	18468.8	7948.8	2867.9	2798.1	3066.0	2999.0	2926.3	2777.7	2617.6	2600.1
52.5°	19971.2	7261.7	2585.6	2606.0	2987.3	3034.0	3031.0	2876.7	2597.2	2573.9
55°	21648.3	6498.8	2373.0	2448.7	2955.3	3098.0	3057.3	2969.9	2614.7	2579.8
57.5°	23299.1	5607.9	2224.5	2329.4	2908.8	3092.2	2932.1	2806.9	2655.5	2606.0
60°	24536.6	4411.2	2111.0	2224.5	2806.9	2996.1	2795.2	2629.2	2646.7	2608.8
62.5°	24618.1	3409.6	1974.1	2134.3	2652.5	2900.1	2705.0	2550.6	2684.5	2649.6
65°	23171.1	2576.8	1843.1	2026.6	2486.6	2838.9	2617.6	2506.9	2763.2	2725.3
67.5°	19508.2	2073.1	1732.5	1915.9	2320.6	2710.7	2539.0	2466.2	2833.1	2766.1
70°	14083.8	1767.4	1624.8	1782.0	2172.1	2565.2	2469.1	2393.4	2643.8	2539.0
72.5°	8670.9	1531.6	1502.4	1604.3	2058.6	2413.8	2364.2	2256.5	2381.7	2297.3
75°	4329.6	1327.7	1365.5	1429.7	1898.4	2242.0	2189.5	2081.8	2099.3	2081.8
77.5°	2073.1	1135.6	1205.4	1255.0	1691.7	2046.9	1991.6	1880.9	1860.5	1863.5
80°	1313.2	949.2	1016.2	1051.1	1511.2	1819.8	1764.5	1653.8	1886.7	1750.0
82.5°	821.1	771.6	789.1	853.1	1316.0	1583.9	1511.2	1412.2	1700.5	1345.2
85°	454.2	538.7	561.9	617.2	1013.2	1324.8	1252.0	1126.8	1010.4	992.9
87.5°	270.8	320.3	329.0	369.8	681.3	957.9	847.3	803.6	666.8	663.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)