

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: P192268

Luminaire Tested: **GLEON-AF-10-LED-E1-T3-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192268
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-T3-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64646 lumens
Efficiency: N/A
Efficacy: 101.0 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): 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

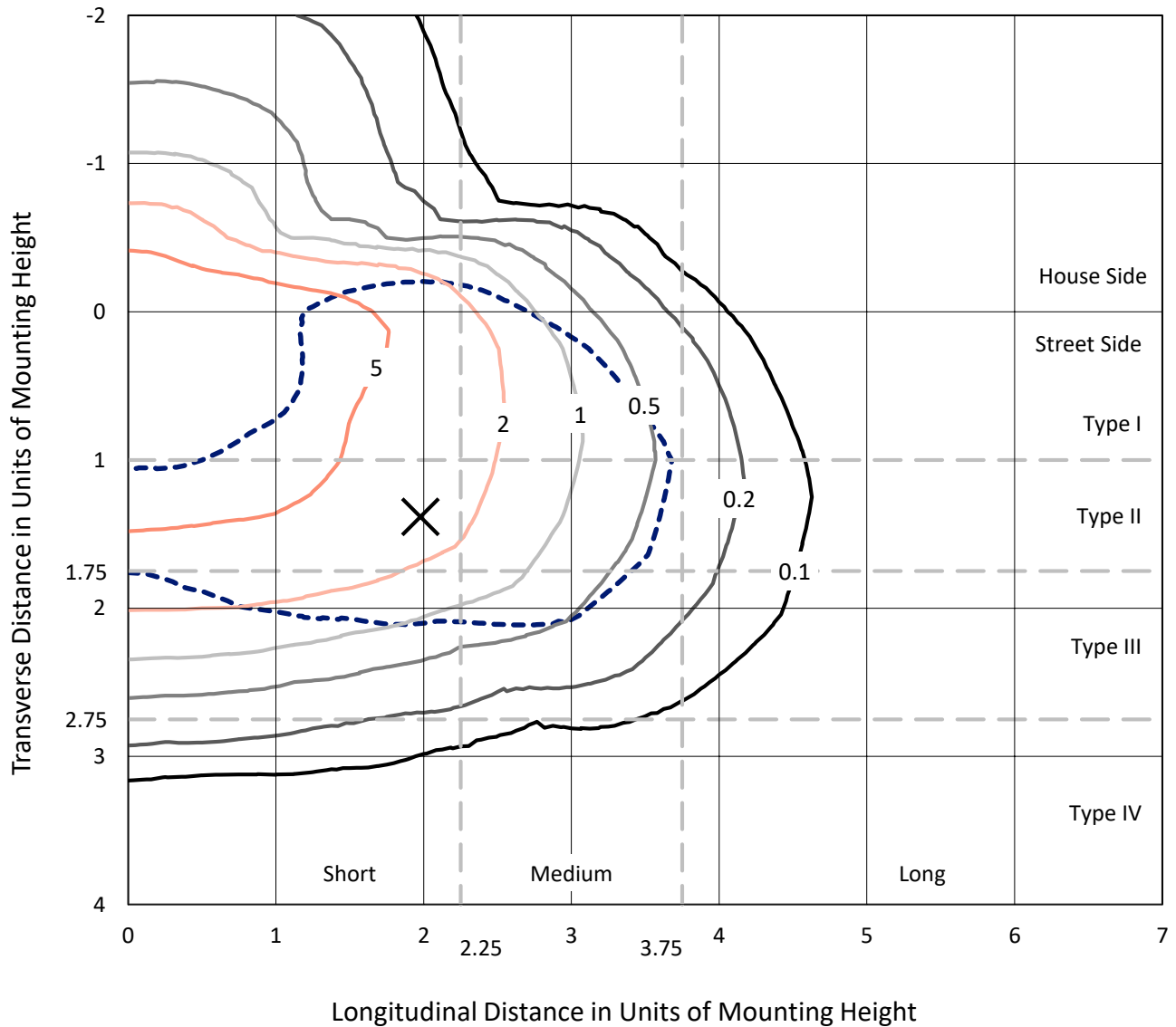


REPORT NUMBER: P192268

CATALOG NUMBER: GLEON-AF-10-LED-E1-T3-7050-1200

Iso-Footcandle Lines of Horizontal Illumination

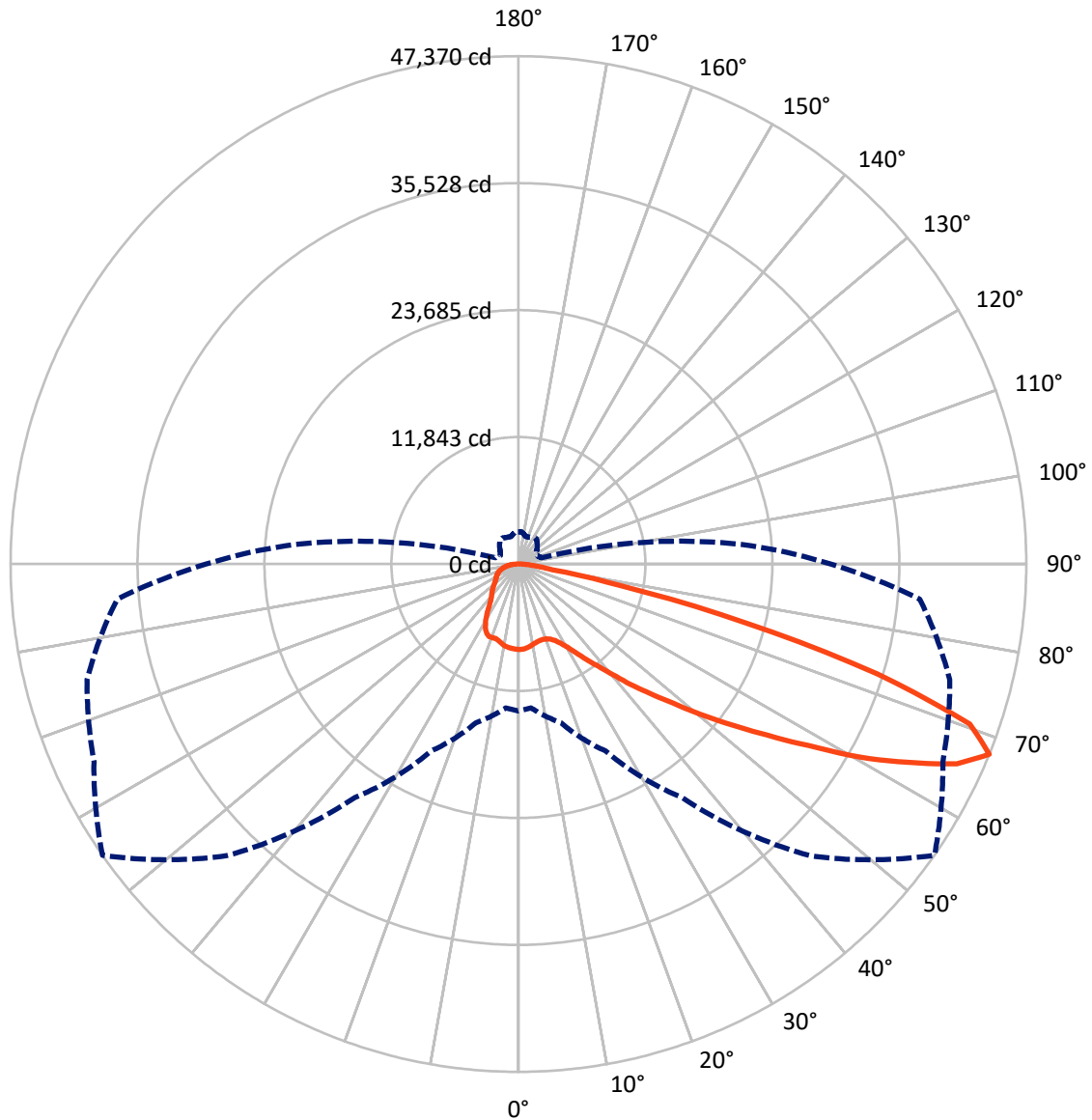
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.1 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P192268
CATALOG NUMBER: GLEON-AF-10-LED-E1-T3-7050-1200

Luminous Intensity Polar Plot



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

REPORT NUMBER: P192268

CATALOG NUMBER: GLEON-AF-10-LED-E1-T3-7050-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13964.9	0.0	13964.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	50681.1	0.0	50681.1
	% Fixture	78.4	0.0	78.4
Total	Lumens	64646.0	0.0	64646.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	744.1	1.2
10°-20°	2107.3	3.3
20°-30°	3530.0	5.5
30°-40°	5804.8	9.0
40°-50°	9771.3	15.1
50°-60°	15379.2	23.8
60°-70°	18353.5	28.4
70°-80°	7881.3	12.2
80°-90°	1074.5	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°	64646.0	100.0
0°-180°	64646.0	100.0



REPORT NUMBER: P192268

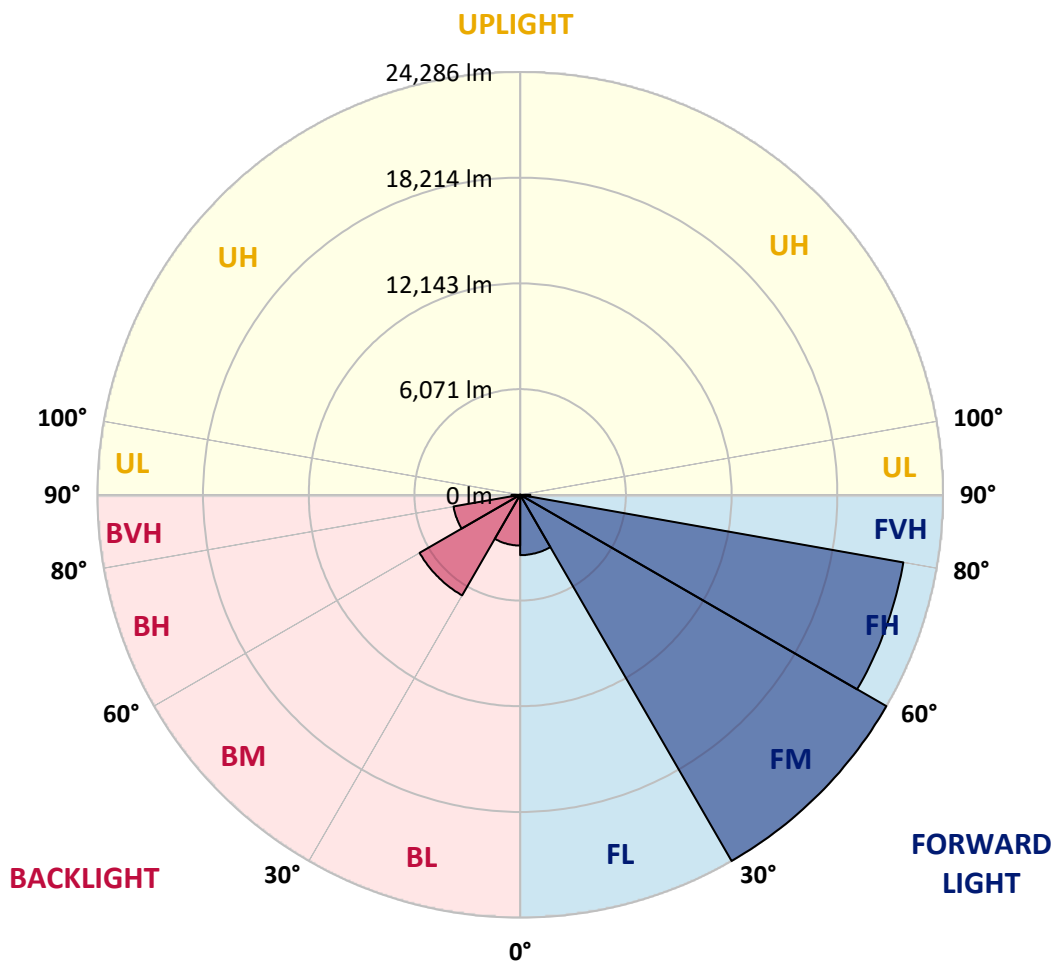
CATALOG NUMBER: GLEON-AF-10-LED-E1-T3-7050-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3465.2	5.4			
FM (30°-60°)	24285.8	37.6			
FH (60°-80°)	22348.4	34.6			G5
FVH (80°-90°)	581.7	0.9			G4/750
BL (0°-30°)	2916.1	4.5	B4/5000		
BM (30°-60°)	6669.5	10.3	B4/8500		
BH (60°-80°)	3886.4	6.0	B4/5000		G4/5000
BVH (80°-90°)	492.9	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: P192268

CATALOG NUMBER: GLEON-AF-10-LED-E1-T3-7050-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7971.6	7971.6	7971.6	7971.6	7971.6	7971.6	7971.6	7971.6	7971.6	7971.6	7971.6
2.5°	7902.9	7906.0	7912.2	7937.2	7959.1	7952.8	7955.9	7943.5	7940.3	7921.6	7940.3
5°	7802.9	7812.3	7815.4	7856.0	7881.0	7887.3	7877.9	7862.3	7843.5	7824.8	7834.2
7.5°	7575.0	7600.0	7603.1	7659.3	7699.9	7753.0	7756.1	7759.2	7749.9	7737.4	7756.1
10°	7431.4	7437.6	7434.5	7475.1	7506.3	7565.6	7600.0	7659.3	7684.3	7690.5	7703.0
12.5°	7422.0	7415.8	7406.4	7406.4	7397.0	7422.0	7484.5	7568.8	7628.1	7646.8	7662.4
15°	7521.9	7518.8	7487.6	7440.7	7381.4	7362.7	7415.8	7509.4	7587.5	7628.1	7643.7
17.5°	7746.7	7728.0	7678.0	7571.9	7443.9	7393.9	7400.2	7478.2	7568.8	7621.8	7637.5
20°	8158.9	8158.9	8052.7	7852.9	7625.0	7506.3	7450.1	7496.9	7584.4	7656.2	7678.0
22.5°	8870.8	8877.1	8699.1	8371.2	7987.2	7734.3	7593.7	7584.4	7687.4	7768.6	7793.6
25°	9879.4	9854.4	9604.6	9136.2	8552.3	8133.9	7890.4	7834.2	7921.6	8012.1	8043.4
27.5°	11053.4	10962.8	10666.2	10101.1	9345.4	8733.4	8358.7	8268.2	8352.5	8455.5	8486.8
30°	12214.9	12121.3	11768.4	11150.2	10310.3	9535.9	8998.8	8852.1	8970.7	9117.5	9136.2
32.5°	13376.5	13376.5	12983.1	12261.8	11346.9	10494.5	9851.3	9676.4	9873.1	10051.1	10091.7
35°	14766.0	14772.2	14391.3	13523.2	12539.7	11637.3	10928.5	10800.5	11097.1	11222.0	11318.8
37.5°	16473.9	16508.3	16018.1	14968.9	13891.7	12942.5	12099.4	11924.6	12221.2	12561.5	12873.8
40°	18319.3	18363.0	17822.8	16530.1	15452.9	14460.0	13548.2	13232.8	13726.2	14375.7	14778.5
42.5°	20080.3	20305.1	19783.7	18453.5	17295.1	16267.8	15343.6	14884.6	15502.9	16483.3	16833.0
45°	22625.1	22787.5	21878.9	20673.6	19583.9	18434.8	17210.8	16726.8	17591.8	18828.2	18900.1
47.5°	24320.6	24198.8	23736.7	22987.3	22297.3	21223.1	19380.9	18850.1	19999.1	21454.2	21051.4
50°	25223.0	25260.4	25198.0	25241.7	25266.7	24592.2	22041.2	21313.7	22684.4	24442.4	23515.0
52.5°	26066.0	25816.2	26022.3	27046.5	28283.0	28033.2	24935.7	24177.0	25563.3	27758.4	26119.1
55°	26047.3	25666.4	26337.7	28145.6	30827.7	31115.0	28186.2	27311.9	28607.7	31314.8	28879.3
57.5°	25126.2	25144.9	26178.4	28545.2	32601.3	34012.6	31958.0	30646.6	31836.3	34918.1	31399.1
60°	23858.5	24030.2	25519.6	28479.7	34022.0	36388.8	36585.5	34240.5	34999.3	38193.5	33484.9
62.5°	21813.3	21994.4	24048.9	27799.0	33806.5	38677.5	40769.5	38318.4	38305.9	40179.4	34096.9
65°	18587.8	18534.7	20692.3	25254.2	31998.6	40369.9	44925.5	41843.7	40797.6	40210.6	32866.7
67.5°	13707.5	13470.2	15321.8	19234.2	26596.8	38474.6	47370.4	43679.6	41646.9	37565.9	29107.3
70°	7112.9	6875.6	8374.4	11231.4	17491.8	30028.4	44663.2	42730.4	39770.4	31489.7	22803.1
72.5°	3041.2	3000.7	3609.5	4927.2	8461.8	17320.1	35021.1	36985.2	34125.0	23461.9	15677.7
75°	2045.2	2032.7	2260.6	2685.3	3806.2	7028.6	21916.3	26253.4	24966.9	14547.4	8817.7
77.5°	1604.9	1589.3	1723.6	1929.7	2466.7	2772.7	9726.4	14094.6	13045.5	6332.3	3859.3
80°	1255.2	1242.7	1327.0	1439.4	1773.5	1748.6	3200.5	5607.9	4340.2	2426.1	1876.6
82.5°	989.8	989.8	1058.5	1061.6	1258.3	1192.8	1670.5	2469.8	2167.0	1414.5	1149.1
85°	905.5	905.5	977.3	793.1	821.2	752.5	1036.6	1464.4	1373.9	580.8	499.6
87.5°	455.9	443.4	821.2	702.5	446.5	399.7	505.8	708.8	761.9	321.6	249.8
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: P192268

CATALOG NUMBER: GLEON-AF-10-LED-E1-T3-7050-1200

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7971.6	7971.6	7971.6	7971.6	7971.6	7971.6	7971.6	7971.6	7971.6	7971.6
2.5°	7934.1	7931.0	7937.2	7940.3	7965.3	7999.7	8015.3	8037.1	8049.6	8043.4
5°	7840.4	7846.7	7871.6	7890.4	7934.1	7990.3	8021.5	8046.5	8068.4	8059.0
7.5°	7762.4	7778.0	7815.4	7831.0	7856.0	7871.6	7868.5	7877.9	7896.6	7874.8
10°	7718.6	7737.4	7765.5	7743.6	7684.3	7600.0	7521.9	7481.3	7493.8	7478.2
12.5°	7674.9	7699.9	7678.0	7575.0	7409.5	7300.2	7240.9	7247.2	7275.3	7281.5
15°	7649.9	7659.3	7565.6	7372.1	7203.4	7187.8	7219.1	7212.8	7215.9	7215.9
17.5°	7649.9	7625.0	7450.1	7256.5	7184.7	7156.6	7059.8	6938.0	6885.0	6866.2
20°	7690.5	7625.0	7412.6	7284.6	7128.5	6888.1	6632.0	6407.2	6307.3	6279.2
22.5°	7812.3	7699.9	7518.8	7297.1	6853.7	6450.9	6045.0	5776.5	5595.4	5564.2
25°	8059.0	7934.1	7728.0	7131.6	6416.6	5842.1	5379.9	5080.2	4899.1	4874.1
27.5°	8489.9	8408.7	7840.4	6766.3	5835.8	5220.7	4792.9	4561.9	4427.6	4418.2
30°	9139.3	9098.8	7784.2	6226.1	5120.8	4618.1	4412.0	4277.7	4177.8	4174.7
32.5°	10176.0	9848.1	7600.0	5567.3	4468.2	4190.3	4106.0	4024.8	3946.7	3946.7
35°	11509.3	10453.9	7250.3	4861.6	4071.6	3953.0	3846.8	3718.8	3615.8	3609.5
37.5°	13076.7	10828.6	6622.7	4293.3	3884.3	3793.7	3637.6	3447.2	3266.1	3234.8
40°	14659.8	10941.0	5739.0	3943.6	3765.6	3634.5	3444.0	3219.2	3044.4	3035.0
42.5°	16111.7	10725.5	4802.3	3703.2	3647.0	3472.1	3272.3	3072.5	2935.1	2932.0
45°	17329.5	10166.6	4015.4	3475.3	3522.1	3325.4	3147.4	2985.0	2878.9	2857.0
47.5°	18475.4	9376.7	3462.8	3234.8	3397.2	3244.2	3094.3	2941.3	2838.3	2822.7
50°	19805.6	8524.2	3075.6	3000.7	3287.9	3216.1	3138.0	2978.8	2807.1	2788.3
52.5°	21416.7	7787.3	2772.7	2794.6	3203.6	3253.6	3250.4	3085.0	2785.2	2760.2
55°	23215.2	6969.3	2544.8	2626.0	3169.3	3322.3	3278.5	3184.9	2803.9	2766.5
57.5°	24985.7	6013.8	2385.5	2497.9	3119.3	3316.0	3144.3	3010.0	2847.7	2794.6
60°	26312.7	4730.5	2263.8	2385.5	3010.0	3213.0	2997.5	2819.6	2838.3	2797.7
62.5°	26400.1	3656.4	2117.0	2288.7	2844.5	3109.9	2900.7	2735.2	2878.9	2841.4
65°	24848.3	2763.3	1976.5	2173.2	2666.6	3044.4	2807.1	2688.4	2963.2	2922.6
67.5°	20920.3	2223.2	1857.8	2054.6	2488.6	2907.0	2722.8	2644.7	3038.1	2966.3
70°	15103.2	1895.3	1742.3	1910.9	2329.3	2750.9	2647.8	2566.6	2835.2	2722.8
72.5°	9298.6	1642.4	1611.2	1720.5	2207.6	2588.5	2535.4	2419.9	2554.1	2463.6
75°	4643.0	1423.8	1464.4	1533.1	2035.8	2404.3	2348.1	2232.5	2251.3	2232.5
77.5°	2223.2	1217.7	1292.7	1345.8	1814.1	2195.1	2135.7	2017.1	1995.2	1998.4
80°	1408.2	1017.9	1089.7	1127.2	1620.5	1951.5	1892.2	1773.5	2023.3	1876.6
82.5°	880.5	827.4	846.2	914.9	1411.3	1698.6	1620.5	1514.4	1823.5	1442.6
85°	487.1	577.6	602.6	662.0	1086.6	1420.7	1342.6	1208.4	1083.5	1064.7
87.5°	290.4	343.5	352.8	396.5	730.6	1027.3	908.6	861.8	715.0	711.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)