

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: P192387

Luminaire Tested: **GLEON-AF-09-LED-E1-T4W-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192387
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
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-T4W-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57968 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 575
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

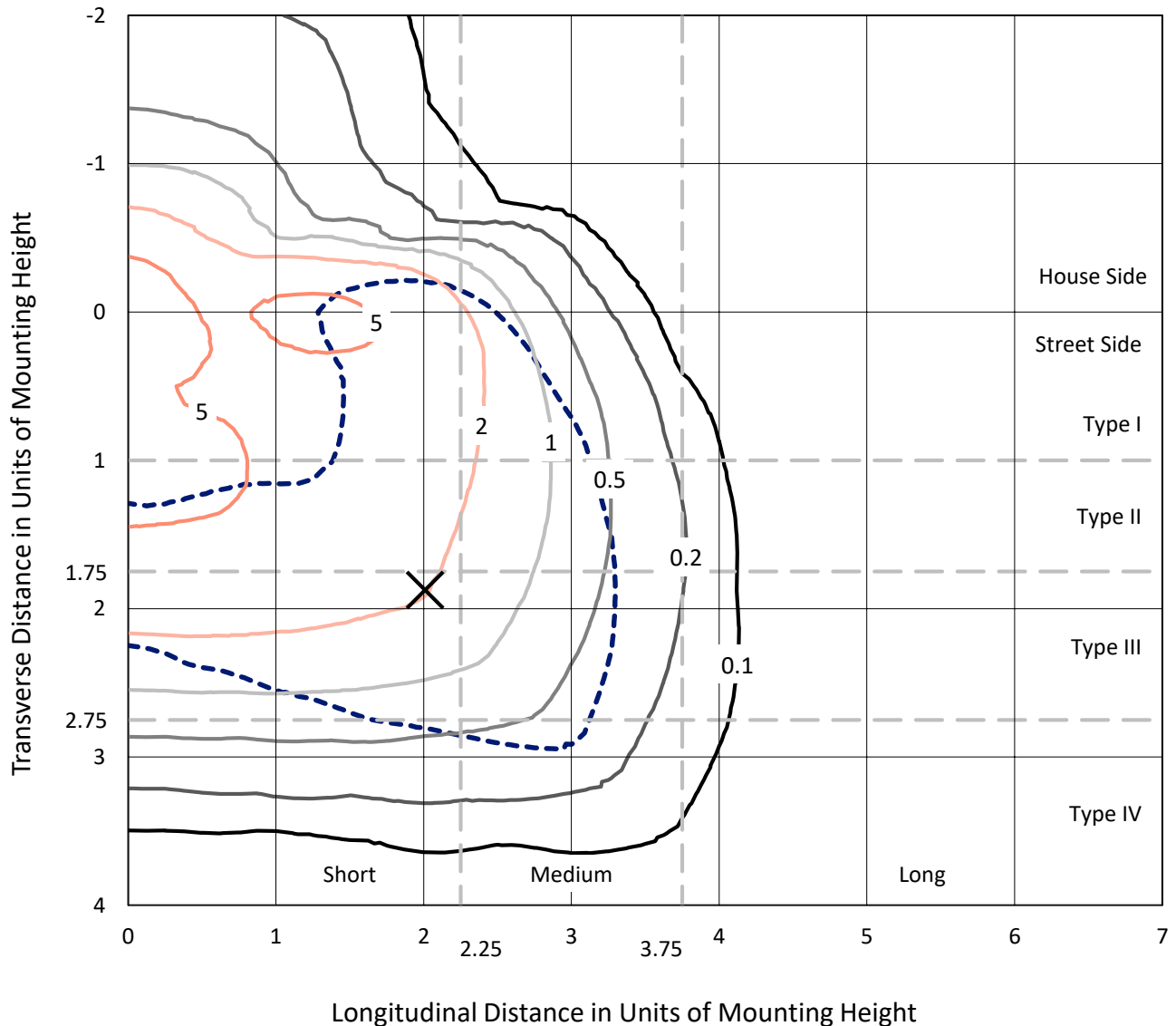


REPORT NUMBER: P192387

CATALOG NUMBER: GLEON-AF-09-LED-E1-T4W-7050-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

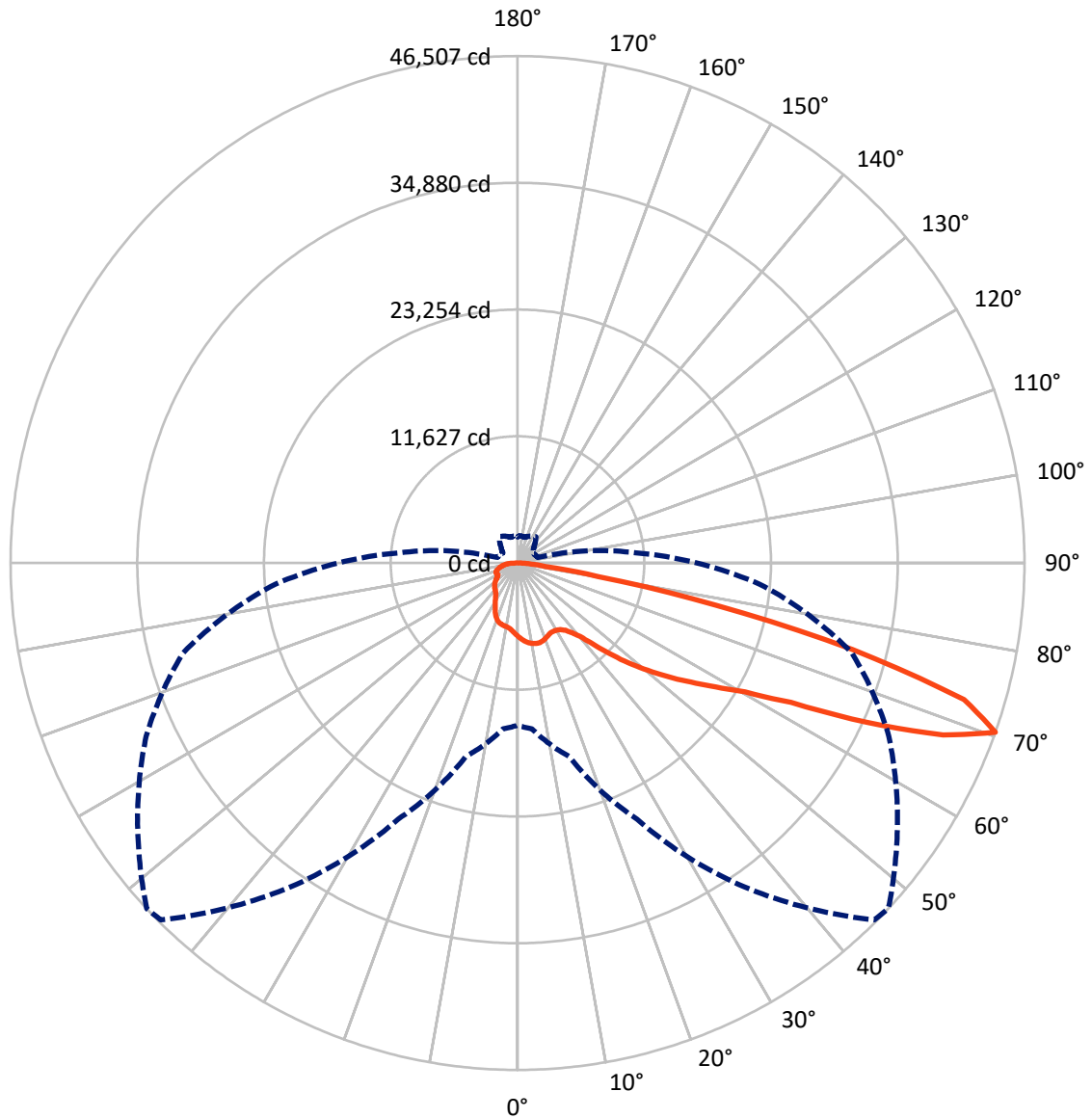


Based on 30 foot mounting height. Maximum calculated value = 8.6 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P192387

CATALOG NUMBER: GLEON-AF-09-LED-E1-T4W-7050-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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CATALOG NUMBER: GLEON-AF-09-LED-E1-T4W-7050-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12093.3	0.0	12093.3
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	45874.7	0.0	45874.7
	% Fixture	79.1	0.0	79.1
Total	Lumens	57968.0	0.0	57968.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	644.5	1.1
10°-20°	1890.7	3.3
20°-30°	2792.1	4.8
30°-40°	4058.2	7.0
40°-50°	7303.4	12.6
50°-60°	12652.4	21.8
60°-70°	18058.6	31.2
70°-80°	9270.3	16.0
80°-90°	1297.9	2.2
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°	57968.0	100.0
0°-180°	57968.0	100.0

Coefficient of Utilization



REPORT NUMBER: P192387

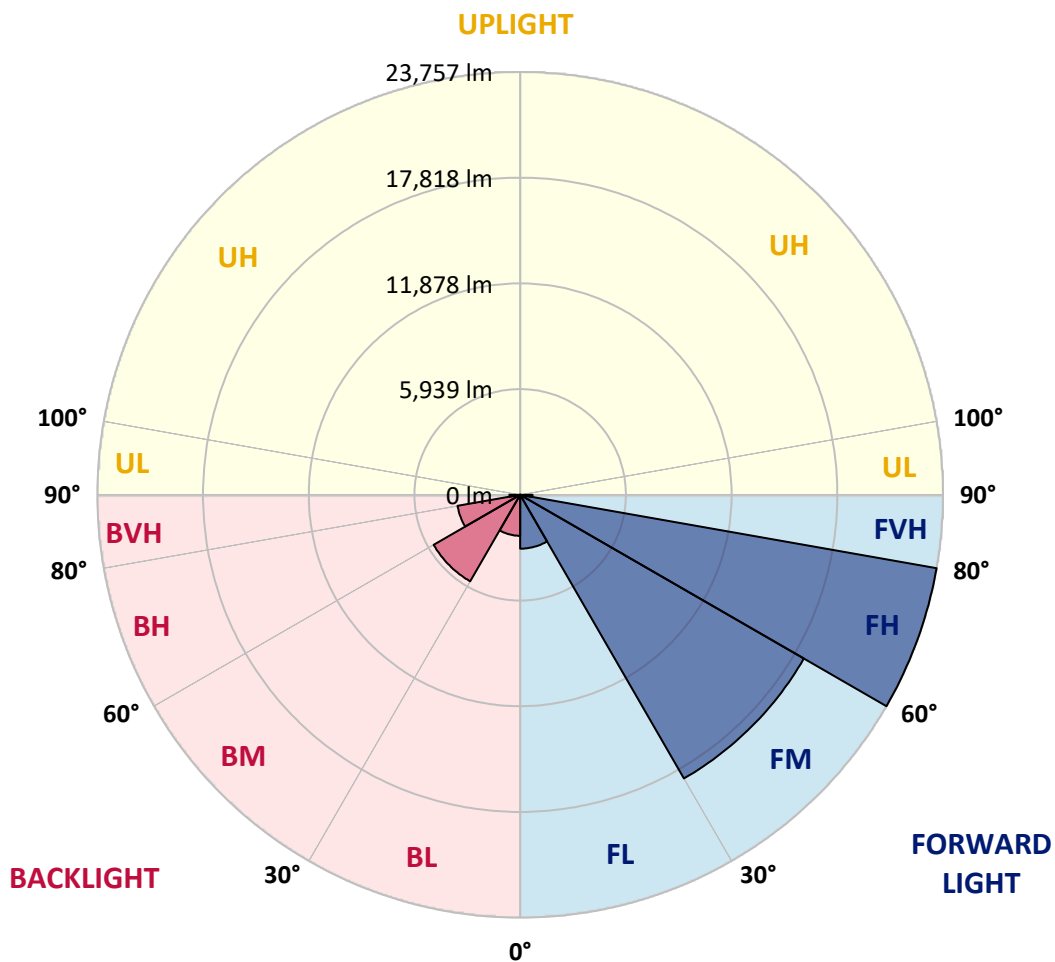
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3024.6	5.2			
FM	(30°-60°)	18400.7	31.7			
FH	(60°-80°)	23756.9	41.0			G5
FVH	(80°-90°)	692.6	1.2			G4/750
BL	(0°-30°)	2302.6	4.0	B3/2500		
BM	(30°-60°)	5613.3	9.7	B4/8500		
BH	(60°-80°)	3572.0	6.2	B4/5000		G4/5000
BVH	(80°-90°)	605.3	1.0			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





REPORT NUMBER: P192387

CATALOG NUMBER: GLEON-AF-09-LED-E1-T4W-7050-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	6726.1	6726.1	6726.1	6726.1	6726.1	6726.1	6726.1	6726.1	6726.1	6726.1	6726.1
2.5°	7120.9	7106.8	7101.2	7089.9	7075.8	7005.3	6991.2	6940.4	6869.9	6796.6	6720.5
5°	7589.1	7586.2	7555.2	7498.8	7408.6	7253.5	7216.8	7092.7	6926.3	6765.6	6604.8
7.5°	8000.8	7975.4	7916.2	7803.4	7645.5	7434.0	7383.2	7211.2	6982.7	6762.8	6545.6
10°	8302.6	8288.5	8158.7	8003.6	7797.8	7563.7	7504.5	7312.7	7061.7	6782.5	6511.8
12.5°	8474.6	8446.4	8296.9	8110.8	7865.4	7637.0	7577.8	7383.2	7101.2	6782.5	6463.8
15°	8463.3	8443.6	8294.1	8091.1	7842.9	7642.6	7589.1	7394.5	7092.7	6754.3	6401.8
17.5°	8237.7	8246.2	8119.3	7919.0	7716.0	7563.7	7515.7	7335.2	7036.3	6697.9	6328.4
20°	7842.9	7882.4	7797.8	7620.1	7507.3	7402.9	7371.9	7219.6	6948.9	6616.1	6249.5
22.5°	7448.1	7484.7	7450.9	7301.4	7284.5	7222.4	7205.5	7095.5	6872.7	6565.3	6201.5
25°	7157.6	7191.4	7185.8	7056.1	7106.8	7104.0	7089.9	7036.3	6855.8	6565.3	6210.0
27.5°	7078.6	7089.9	7078.6	6960.2	7030.7	7087.1	7075.8	7067.3	6906.6	6647.1	6317.2
30°	7349.3	7332.4	7245.0	7005.3	7070.2	7149.1	7137.8	7143.5	7058.9	6861.5	6556.9
32.5°	8429.5	8353.3	8077.0	7402.9	7230.9	7273.2	7278.8	7371.9	7386.0	7191.4	6929.1
35°	10045.4	9960.8	9602.7	8469.0	7730.1	7583.4	7583.4	7724.4	7809.0	7665.2	7507.3
37.5°	11757.3	11664.2	11472.4	9946.7	8779.2	8122.1	8108.0	8206.7	8327.9	8361.8	8401.3
40°	13703.2	13604.5	13658.1	11605.0	10242.8	9055.5	8855.3	8784.8	9112.0	9329.1	9645.0
42.5°	15832.4	15787.3	15807.0	13452.2	11909.6	10451.5	10166.7	9802.9	10197.7	10584.1	11246.8
45°	17803.7	17843.2	17823.4	15429.1	13765.2	12154.9	11853.2	11148.1	11534.5	12197.2	13277.3
47.5°	19529.6	19366.1	19619.9	17589.4	15843.7	14061.3	13689.1	12744.3	13136.3	13954.2	15781.6
50°	21625.0	21602.5	21230.2	20471.6	18356.5	15976.2	15488.3	14394.1	15003.3	16139.8	18937.4
52.5°	23827.6	23418.6	23077.4	22713.6	21021.5	17939.1	17341.2	16038.3	17197.4	18627.2	22784.1
55°	24278.8	24095.5	24518.5	25130.5	23590.7	19978.0	19281.5	18099.8	19667.8	21469.9	27220.2
57.5°	25243.3	25240.5	26114.7	27206.1	26236.0	22141.1	21438.9	20590.0	22445.7	24727.2	31929.9
60°	25894.8	26078.1	27702.5	29820.4	28833.4	24639.8	23994.0	23463.8	25604.3	28368.0	36318.1
62.5°	26236.0	26484.2	28700.8	30880.8	32505.2	28799.5	28153.7	27389.4	29783.8	32361.4	38884.4
65°	24817.4	25305.3	28545.7	31797.4	35720.2	35542.5	35252.1	33909.7	35009.5	35517.2	37956.6
67.5°	20891.8	21390.9	25164.3	30942.8	38015.8	42045.8	42107.9	39815.1	38224.5	35787.9	31913.0
70°	14884.8	15276.8	18398.8	25942.7	36267.3	46295.8	46507.3	42536.5	37584.3	31738.1	22296.2
72.5°	7067.3	7307.0	10262.6	16884.3	28779.8	42418.1	42827.0	39062.1	31958.1	23497.6	12163.4
75°	2597.4	2670.7	3468.8	7183.0	16692.6	31281.3	31763.5	28001.4	21185.1	11698.0	4633.5
77.5°	1556.7	1604.7	1945.9	3031.7	6565.3	17879.8	18593.3	15228.9	9258.6	4354.3	2278.7
80°	1088.6	1122.4	1396.0	1886.7	3102.2	6813.5	7448.1	6215.6	3688.8	2755.3	1658.3
82.5°	736.1	753.0	981.4	1274.7	2061.5	2433.8	2625.6	2763.8	2487.4	2050.3	1051.9
85°	482.2	499.2	665.6	840.4	1311.4	1257.8	1286.0	1627.2	1816.2	1393.2	583.8
87.5°	276.4	287.7	400.5	448.4	643.0	533.0	538.7	857.3	1161.9	939.1	355.3
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: P192387

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6726.1	6726.1	6726.1	6726.1	6726.1	6726.1	6726.1	6726.1	6726.1	6726.1	6726.1
2.5°	6700.7	6664.0	6582.3	6531.5	6483.6	6472.3	6452.5	6449.7	6446.9	6446.9	6438.4
5°	6551.2	6489.2	6362.3	6291.8	6232.6	6226.9	6224.1	6238.2	6243.8	6249.5	6241.0
7.5°	6455.4	6370.8	6212.8	6111.3	6040.8	6023.9	6052.1	6116.9	6159.2	6176.2	6167.7
10°	6396.1	6291.8	6108.5	5998.5	5939.3	5930.8	5967.5	6043.6	6131.0	6164.9	6162.1
12.5°	6328.4	6210.0	6015.4	5899.8	5865.9	5882.9	5930.8	6001.3	6091.6	6145.1	6148.0
15°	6260.8	6122.6	5922.3	5820.8	5806.7	5829.3	5874.4	5928.0	5998.5	6052.1	6057.7
17.5°	6179.0	6035.2	5834.9	5730.6	5719.3	5730.6	5733.4	5761.6	5806.7	5857.5	5871.6
20°	6091.6	5944.9	5736.2	5631.9	5581.1	5536.0	5485.2	5490.9	5505.0	5555.7	5567.0
22.5°	6029.5	5882.9	5660.1	5516.2	5380.9	5245.5	5144.0	5129.9	5135.5	5177.8	5191.9
25°	6035.2	5880.0	5640.3	5392.2	5096.0	4878.9	4743.5	4721.0	4718.1	4749.2	4768.9
27.5°	6145.1	5990.0	5713.7	5265.2	4785.8	4464.3	4320.5	4303.6	4281.0	4289.5	4312.0
30°	6390.5	6246.7	5891.3	5135.5	4450.2	4058.2	3908.7	3891.8	3860.8	3846.7	3863.6
32.5°	6791.0	6672.5	6150.8	5011.4	4114.6	3711.3	3559.0	3522.4	3502.6	3485.7	3499.8
35°	7456.5	7405.8	6497.7	4876.1	3818.5	3443.4	3305.2	3248.8	3220.6	3251.6	3274.2
37.5°	8500.0	8528.2	6951.7	4664.6	3590.1	3265.8	3150.1	3085.3	3043.0	3068.3	3093.7
40°	9977.7	9997.5	7453.7	4365.6	3392.7	3161.4	3037.3	2978.1	2918.9	2873.7	2870.9
42.5°	11918.0	11717.8	7947.2	4041.3	3164.2	3096.5	2958.4	2885.0	2794.8	2670.7	2645.3
45°	14219.3	13517.0	8322.3	3669.0	2907.6	3017.6	2870.9	2769.4	2628.4	2493.0	2478.9
47.5°	16870.2	15448.9	8505.6	3282.7	2667.9	2901.9	2763.8	2603.0	2425.3	2357.7	2349.2
50°	20107.8	17741.7	8593.0	2907.6	2459.2	2749.7	2608.7	2419.7	2270.2	2256.1	2247.7
52.5°	23793.7	20499.8	8621.2	2600.2	2287.2	2552.2	2481.7	2298.4	2180.0	2191.3	2191.3
55°	27651.7	23348.1	8237.7	2377.4	2129.2	2349.2	2397.1	2250.5	2151.8	2196.9	2213.8
57.5°	31193.8	25872.2	7030.7	2205.4	1979.8	2194.1	2366.1	2295.6	2227.9	2411.2	2422.5
60°	33912.5	27364.1	5251.1	2050.3	1869.8	2140.5	2447.9	2467.6	2484.6	2921.7	2980.9
62.5°	34482.2	26867.7	3609.8	1929.0	1819.0	2185.6	2597.4	2600.2	2580.5	2885.0	2921.7
65°	31867.9	23728.9	2625.6	1861.3	1776.7	2267.4	2724.3	2665.1	2535.3	2766.6	2698.9
67.5°	25308.2	17877.0	2185.6	1810.5	1714.7	2261.8	2859.6	2724.3	2509.9	2710.2	2600.2
70°	16427.5	10809.7	1945.9	1768.2	1641.3	2154.6	2938.6	2718.6	2436.6	2521.2	2391.5
72.5°	8014.9	4833.8	1785.2	1706.2	1565.2	2005.1	2935.8	2667.9	2360.5	2354.8	2284.3
75°	3136.0	2213.8	1638.5	1613.1	1435.5	1835.9	2856.8	2594.6	2270.2	2180.0	2154.6
77.5°	1835.9	1579.3	1452.4	1474.9	1280.4	1666.7	2741.2	2467.6	2146.1	2039.0	2010.8
80°	1336.8	1181.6	1238.1	1274.7	1094.2	1497.5	2586.1	2312.5	2008.0	2061.5	2022.1
82.5°	857.3	761.4	1004.0	1040.6	910.9	1325.5	2416.9	2149.0	1813.4	1647.0	1607.5
85°	437.1	482.2	747.3	792.5	702.2	1088.6	2211.0	1931.8	1593.4	1370.6	1393.2
87.5°	245.4	330.0	476.6	533.0	496.3	837.6	1793.6	1593.4	1300.1	1057.6	930.7
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)