

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: P269579

Luminaire Tested: **GLEON-AF-08-LED-E1-T2-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269579
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-T2-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32861 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 334
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

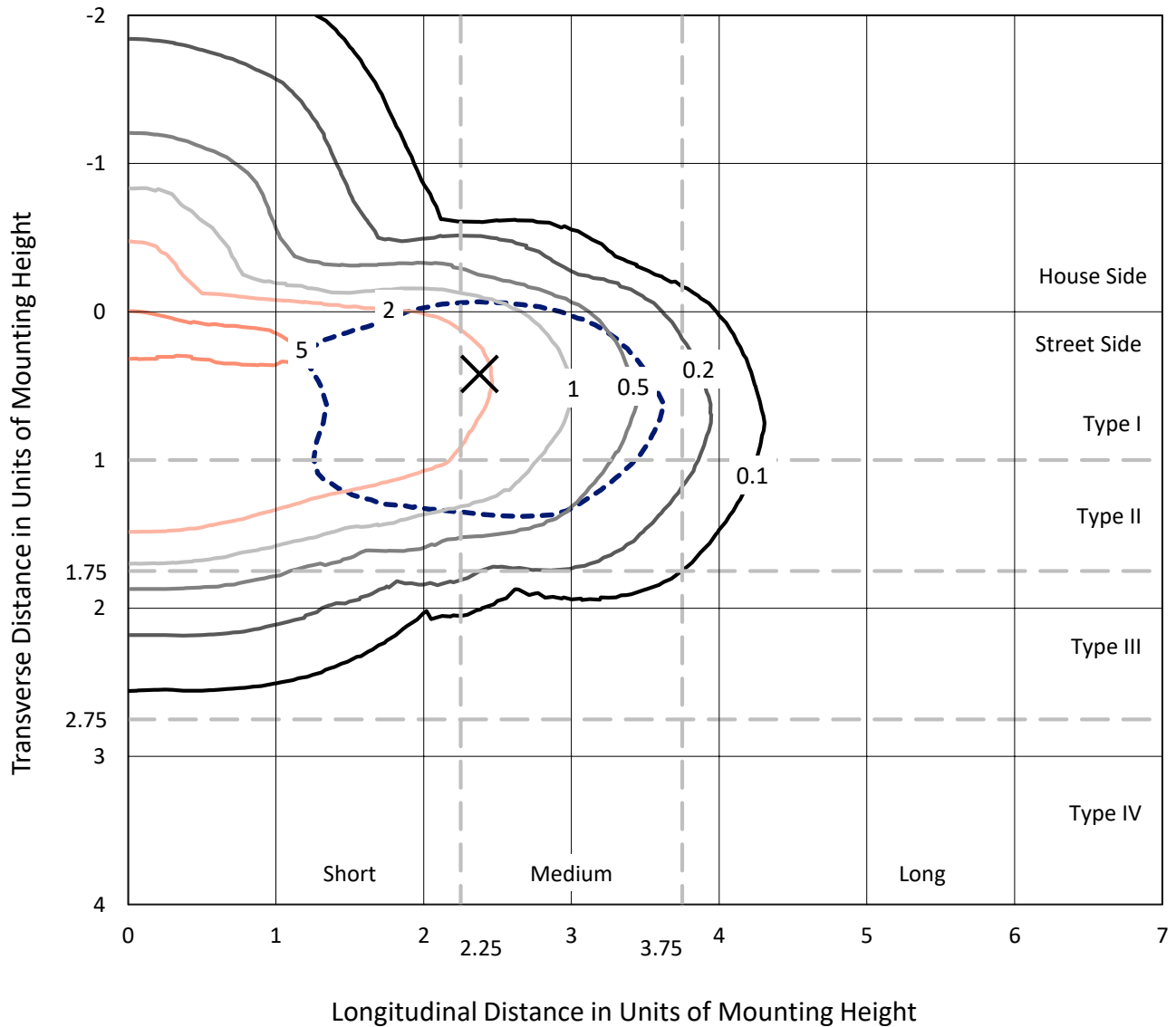


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

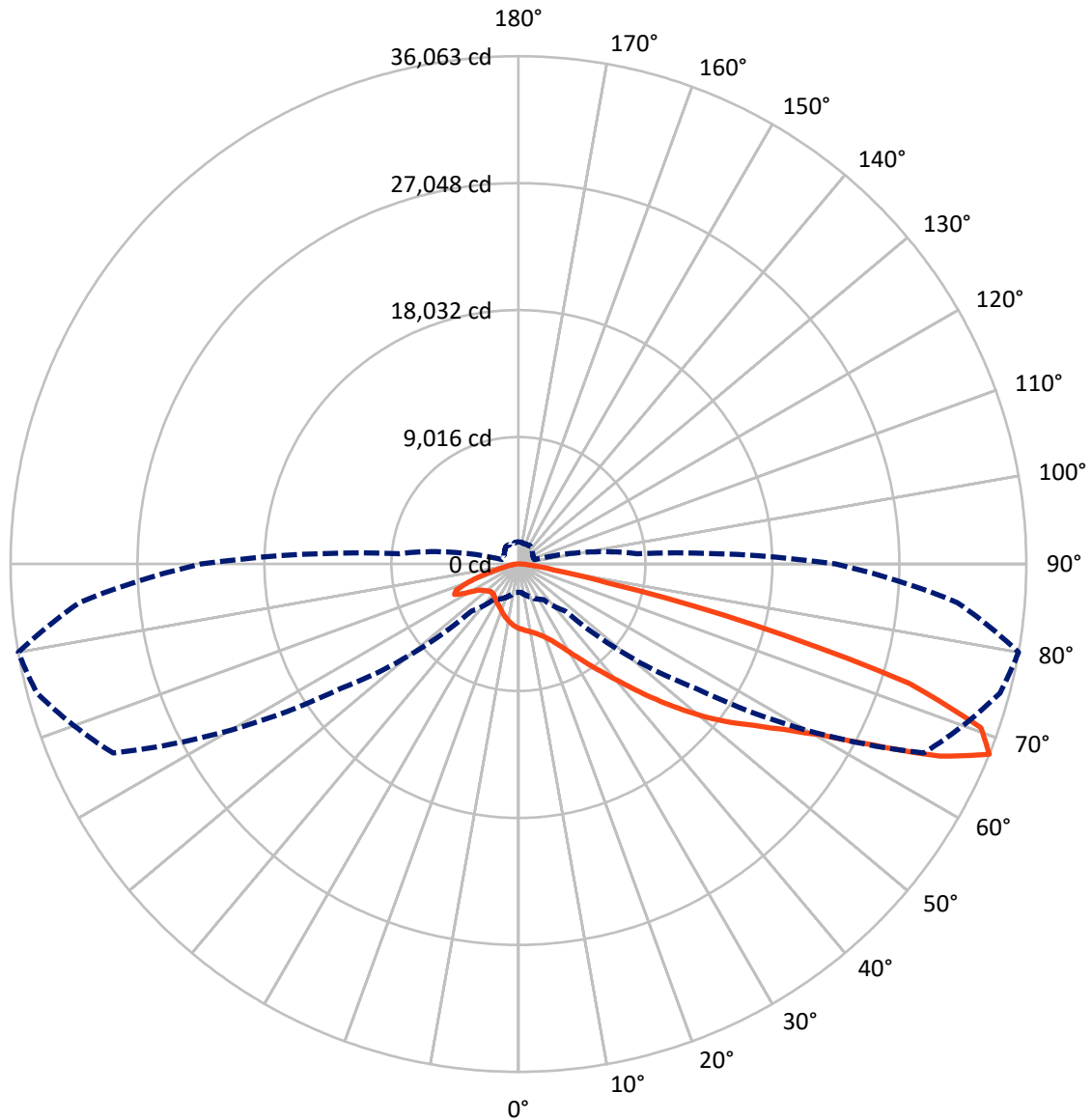


Based on 30 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6051.7	0.0	6051.7
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	26809.2	0.0	26809.2
	% Fixture	81.6	0.0	81.6
Total	Lumens	32861.0	0.0	32861.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.1	1.3
10°-20°	1213.2	3.7
20°-30°	2008.1	6.1
30°-40°	3284.6	10.0
40°-50°	5303.4	16.1
50°-60°	7656.5	23.3
60°-70°	8449.5	25.7
70°-80°	3894.7	11.9
80°-90°	629.9	1.9
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°	32861.0	100.0
0°-180°	32861.0	100.0



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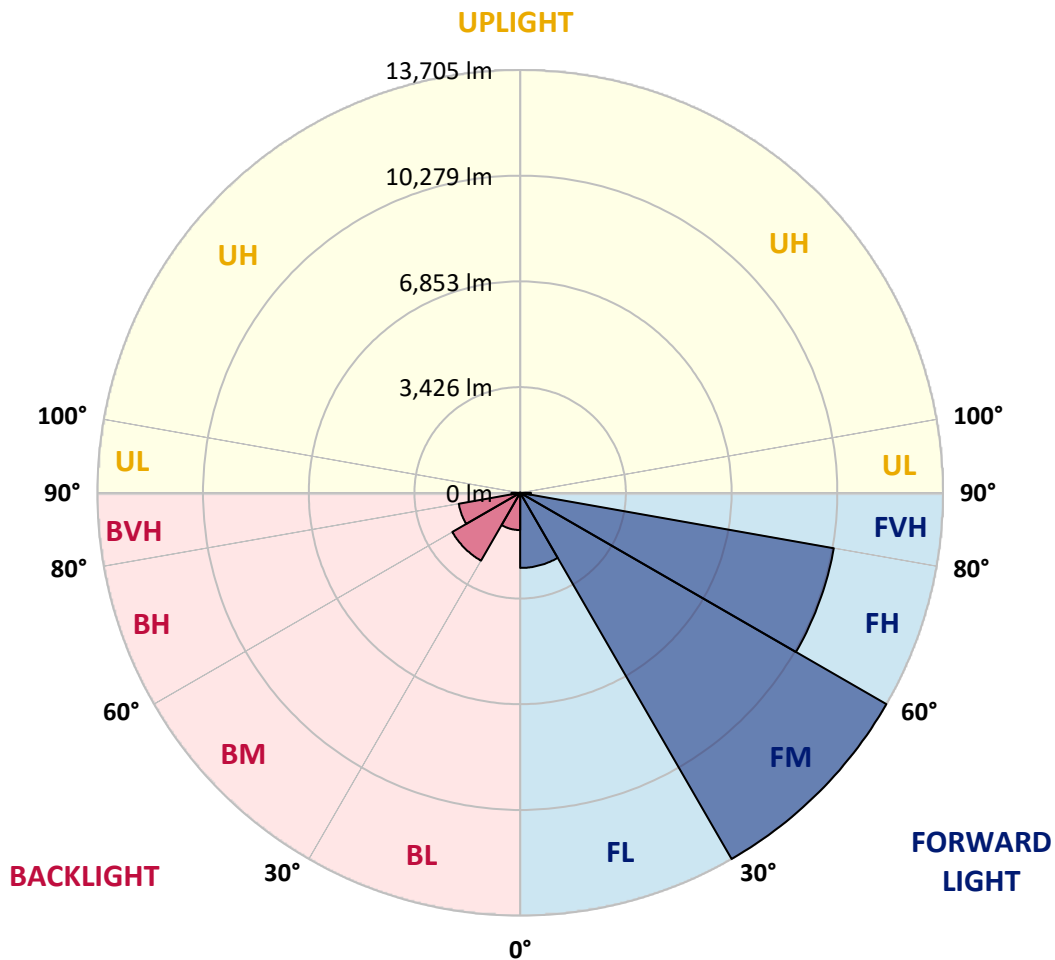
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2434.9	7.4			
FM (30°-60°)	13705.5	41.7			
FH (60°-80°)	10322.5	31.4			G4/12000
FVH (80°-90°)	346.3	1.1			G3/500
BL (0°-30°)	1207.4	3.7	B3/2500		
BM (30°-60°)	2539.1	7.7	B3/5000		
BH (60°-80°)	2021.6	6.2	B3/2500		G3/2500
BVH (80°-90°)	283.6	0.9			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	4565.4	4565.4	4565.4	4565.4	4565.4	4565.4	4565.4	4565.4	4565.4	4565.4	4565.4
2.5°	4994.0	4964.9	4969.9	4961.7	4937.4	4895.4	4850.0	4767.6	4681.8	4636.5	4600.8
5°	5411.4	5403.3	5392.0	5366.1	5304.8	5217.3	5108.9	4963.3	4806.4	4723.8	4644.6
7.5°	5723.7	5718.8	5704.2	5688.1	5628.2	5523.0	5359.6	5152.6	4924.5	4811.2	4688.3
10°	5749.5	5757.6	5768.9	5812.7	5820.7	5764.2	5597.5	5346.7	5047.4	4901.8	4744.8
12.5°	5529.5	5547.4	5591.1	5702.6	5820.7	5890.2	5804.6	5550.5	5191.5	5015.1	4816.2
15°	5238.3	5248.1	5301.4	5455.0	5667.0	5882.2	5963.0	5775.5	5377.4	5160.8	4922.9
17.5°	5113.8	5118.6	5155.8	5257.8	5455.0	5762.4	6052.2	6019.7	5605.6	5342.0	5054.0
20°	5050.7	5061.9	5115.4	5215.6	5340.2	5608.7	6065.0	6283.5	5877.4	5568.4	5219.0
22.5°	5230.2	5225.4	5244.8	5295.0	5400.2	5561.9	6055.4	6555.2	6223.5	5859.6	5434.0
25°	5649.3	5667.0	5633.1	5576.5	5610.5	5723.7	6107.0	6849.7	6657.1	6233.2	5715.6
27.5°	6246.3	6228.4	6178.3	6045.7	5976.1	6024.6	6278.6	7166.7	7195.9	6725.2	6087.6
30°	6841.5	6826.9	6778.5	6616.6	6474.4	6433.9	6611.9	7530.8	7838.2	7315.5	6543.9
32.5°	7459.5	7443.4	7398.0	7236.2	7064.8	6970.9	7085.8	7951.3	8595.3	8020.8	7081.0
35°	8221.5	8190.7	8095.3	7870.4	7702.2	7629.5	7682.8	8480.4	9468.9	8855.8	7732.9
37.5°	8938.1	8985.0	8888.0	8577.5	8359.0	8333.1	8393.0	9125.8	10410.4	9789.1	8481.9
40°	9658.0	9666.2	9578.7	9324.9	9100.0	9057.9	9208.3	9908.8	11521.8	10905.3	9392.8
42.5°	10402.3	10418.5	10271.2	10036.7	9871.7	9879.6	10051.1	10826.2	12796.5	12220.6	10441.1
45°	11283.9	11308.3	11146.3	10839.0	10688.7	10991.1	10919.9	11855.0	14194.3	13715.4	11644.6
47.5°	12206.1	12243.3	12120.3	11832.4	11644.6	12060.5	11788.6	12995.5	15698.8	15318.6	12966.5
50°	12709.2	12762.6	12882.4	12861.3	12820.8	12751.4	12757.6	14218.6	17250.3	16988.1	14325.4
52.5°	12439.0	12437.5	12874.1	13404.9	13971.1	14013.1	13938.7	15507.9	18699.7	18620.5	15604.9
55°	11203.0	11287.2	11948.9	12976.1	14522.7	15488.5	15708.5	16985.0	20123.4	20215.6	16904.0
57.5°	9145.3	9214.9	10107.8	11539.5	13778.6	16365.3	18225.8	19131.7	21715.3	22145.6	18633.5
60°	6202.5	6286.7	7233.1	8952.8	11775.7	15876.9	20621.8	22962.7	23621.0	24599.8	21060.1
62.5°	3644.9	3720.9	4492.6	5647.6	8291.0	13607.0	21673.2	28412.9	26648.0	28302.9	24761.6
65°	2509.1	2560.9	2936.3	3515.3	4764.3	9164.7	20369.3	32175.9	31305.5	32890.9	29053.5
67.5°	2019.0	2012.6	2310.3	2704.8	3067.4	4725.5	15402.8	31750.4	35401.7	36063.4	31281.1
70°	1663.0	1656.7	1858.9	2185.5	2450.9	2661.1	8389.8	26793.4	34566.9	34835.5	29229.9
72.5°	1391.2	1397.8	1527.2	1769.8	2010.9	2004.4	3687.0	18848.6	27193.1	29050.3	23300.7
75°	1174.5	1177.8	1263.5	1435.0	1632.3	1614.6	1999.5	10211.4	15807.3	17099.9	12916.3
77.5°	999.8	1003.0	1058.1	1153.5	1294.2	1287.7	1459.2	4411.7	6594.0	6513.2	4418.1
80°	891.4	891.4	917.3	935.0	1012.7	983.6	1082.3	2119.3	2787.4	2573.9	1763.4
82.5°	698.9	702.1	860.7	854.2	797.5	760.3	760.3	1249.0	1477.1	1365.5	1032.2
85°	393.1	391.5	555.0	669.7	702.1	535.5	530.5	698.9	804.1	708.7	499.8
87.5°	168.3	171.4	257.3	297.7	397.9	333.2	328.4	360.8	409.3	354.3	231.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4565.4	4565.4	4565.4	4565.4	4565.4	4565.4	4565.4	4565.4	4565.4	4565.4	4565.4
2.5°	4567.0	4524.9	4432.6	4317.9	4214.3	4146.3	4084.9	3995.9	4000.7	3939.2	3894.0
5°	4563.7	4476.3	4262.8	4008.9	3764.5	3588.2	3455.6	3335.9	3306.8	3250.1	3216.1
7.5°	4567.0	4424.6	4065.5	3659.3	3356.8	3133.6	3020.5	2957.3	2942.7	2923.4	2924.9
10°	4578.3	4377.7	3848.7	3332.6	3015.5	2868.3	2840.8	2860.3	2882.9	2889.4	2890.9
12.5°	4604.2	4335.6	3610.8	3041.4	2802.0	2756.7	2803.6	2869.9	2913.7	2934.7	2933.1
15°	4662.5	4303.3	3382.7	2813.3	2683.9	2708.1	2795.5	2889.4	2952.4	2981.6	2983.2
17.5°	4725.5	4256.3	3148.2	2638.6	2596.6	2657.9	2766.4	2876.5	2954.0	2986.4	2992.9
20°	4808.0	4198.0	2902.2	2507.6	2513.9	2583.5	2685.6	2795.5	2881.3	2908.7	2921.6
22.5°	4916.5	4135.0	2687.1	2400.8	2420.2	2473.6	2552.9	2648.4	2722.8	2735.7	2746.9
25°	5061.9	4067.0	2515.7	2303.8	2311.8	2342.5	2395.9	2452.6	2504.4	2489.7	2501.2
27.5°	5257.8	4008.9	2387.9	2214.7	2200.2	2206.6	2234.2	2252.0	2279.4	2238.9	2243.8
30°	5487.4	3945.7	2289.2	2137.1	2096.6	2085.3	2091.8	2101.4	2122.5	2067.4	2059.5
32.5°	5754.5	3869.7	2197.0	2069.2	2012.6	1989.8	1993.1	2019.0	2099.9	2065.9	2048.0
35°	6065.0	3784.0	2099.9	1994.6	1955.9	1923.5	1920.2	2001.2	2242.2	2221.1	2205.0
37.5°	6429.0	3698.2	2002.9	1910.5	1913.7	1878.3	1866.9	1959.2	2269.7	2187.3	2176.0
40°	6891.6	3652.9	1920.2	1821.7	1862.0	1857.2	1834.6	1881.5	2088.5	1938.2	1918.7
42.5°	7464.3	3659.3	1858.9	1726.2	1800.7	1852.3	1816.7	1818.3	1892.8	1779.5	1761.8
45°	8171.3	3735.4	1815.1	1650.1	1731.0	1847.5	1810.3	1784.5	1791.0	1731.0	1721.3
47.5°	8996.4	3892.4	1784.5	1587.0	1664.6	1829.7	1808.6	1774.7	1760.0	1727.8	1719.6
50°	9913.6	4120.4	1761.8	1527.2	1604.8	1800.7	1810.3	1765.0	1748.8	1735.9	1731.0
52.5°	10814.8	4380.9	1727.8	1475.3	1557.9	1765.0	1815.1	1755.3	1737.5	1727.8	1722.9
55°	11819.4	4706.1	1676.0	1431.7	1519.0	1719.6	1815.1	1740.7	1721.3	1722.9	1721.3
57.5°	13176.8	5231.9	1614.6	1394.4	1472.1	1664.6	1784.5	1724.6	1700.3	1701.8	1703.5
60°	15297.6	6158.9	1540.1	1357.2	1413.9	1600.1	1742.4	1689.0	1664.6	1671.1	1672.7
62.5°	18416.7	7519.4	1443.0	1302.4	1352.5	1530.4	1684.1	1643.7	1619.4	1635.5	1635.5
65°	21658.8	8719.8	1323.4	1232.7	1287.7	1454.4	1611.3	1587.0	1562.8	1600.1	1598.4
67.5°	22530.7	8451.3	1203.5	1156.7	1223.0	1370.3	1524.0	1510.9	1498.1	1562.8	1559.5
70°	20015.0	6784.9	1093.5	1079.0	1151.8	1279.6	1430.1	1430.1	1422.0	1470.5	1459.2
72.5°	15249.1	4811.2	988.5	996.5	1071.0	1181.0	1328.1	1339.6	1326.5	1350.8	1341.1
75°	8163.3	2753.5	883.4	905.9	970.7	1080.8	1215.0	1226.2	1218.2	1216.6	1221.4
77.5°	2713.1	1346.0	773.4	808.8	865.4	977.1	1096.8	1114.6	1095.3	1092.0	1090.4
80°	1208.5	846.2	652.0	698.9	749.0	859.0	972.2	986.9	965.8	995.0	957.8
82.5°	776.6	556.5	522.5	574.2	622.9	740.9	847.7	851.0	831.6	965.8	823.4
85°	377.0	344.6	393.1	440.0	482.1	582.5	702.1	703.7	655.3	597.0	576.0
87.5°	187.7	200.6	262.0	304.2	325.1	399.6	511.2	501.6	480.5	436.8	402.8
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)