

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: P269751

Luminaire Tested: **GLEON-AF-10-LED-E1-T3R-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269751
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
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-T3R-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42284.2 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 419
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

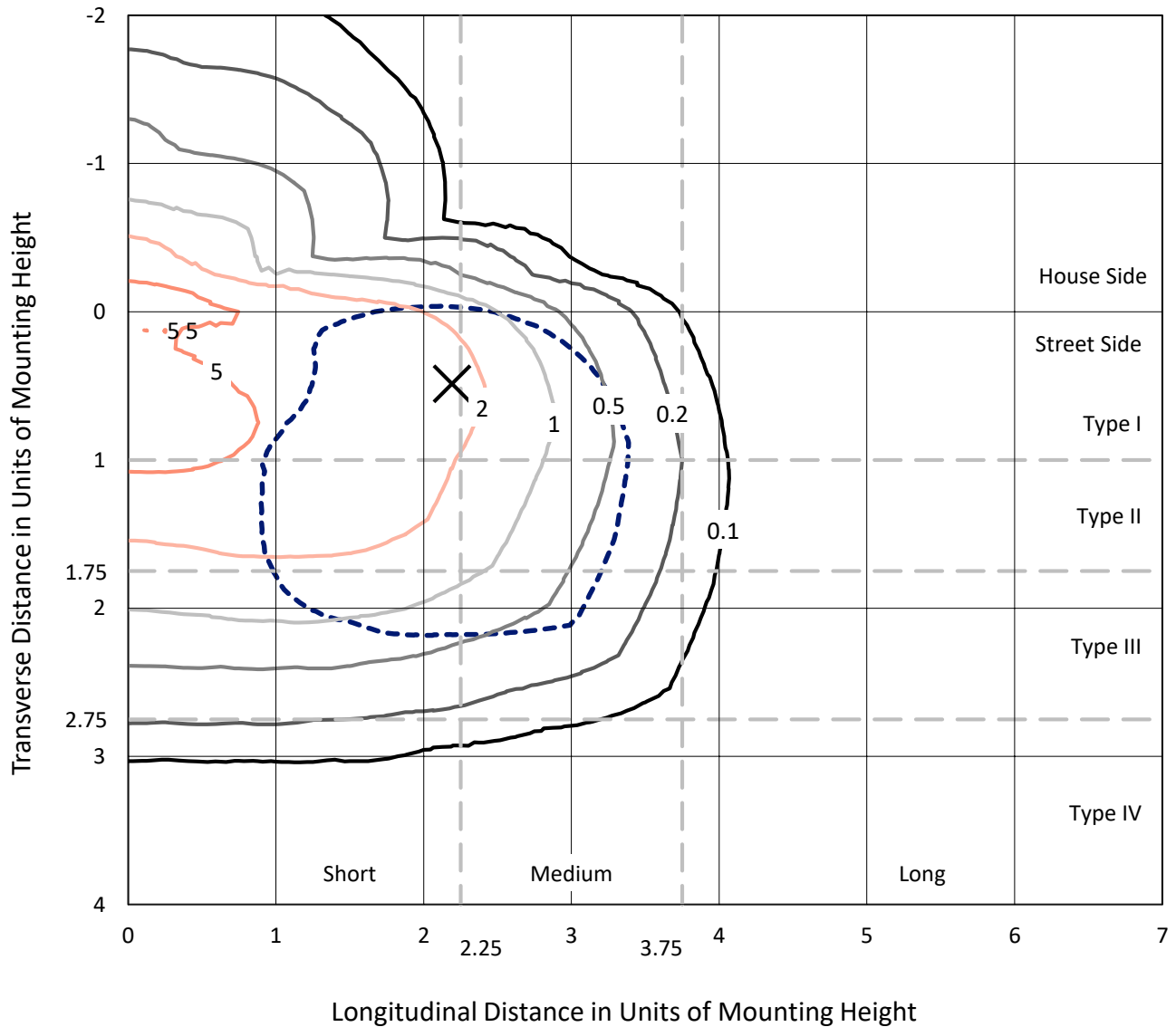


REPORT NUMBER: P269751

CATALOG NUMBER: GLEON-AF-10-LED-E1-T3R-7027-800

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

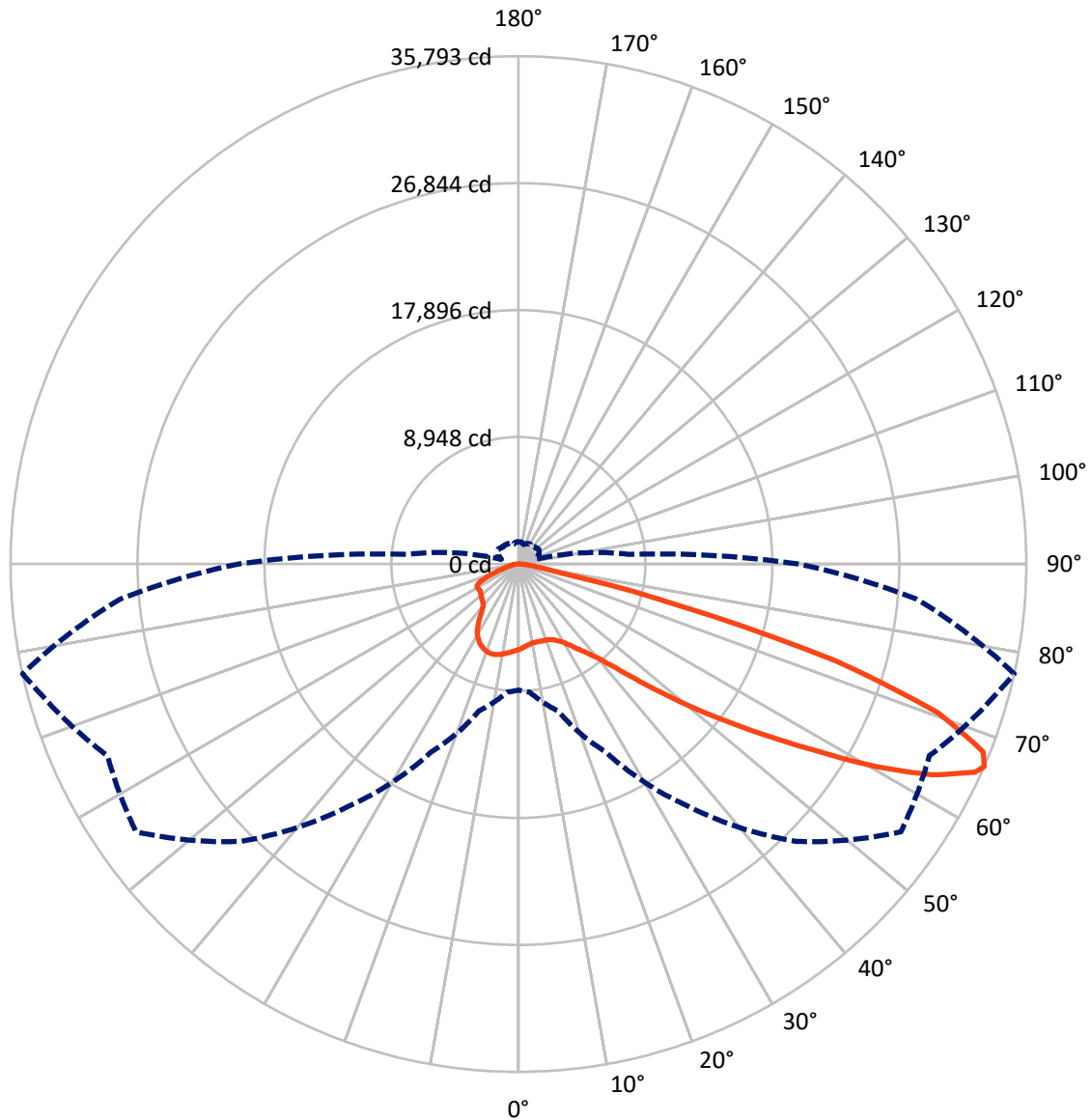


Based on 30 foot mounting height. Maximum calculated value = 8.3 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P269751

CATALOG NUMBER: GLEON-AF-10-LED-E1-T3R-7027-800

Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P269751

CATALOG NUMBER: GLEON-AF-10-LED-E1-T3R-7027-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7224.0	0.0	7224.0
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	35060.2	0.0	35060.2
	% Fixture	82.9	0.0	82.9
Total	Lumens	42284.2	0.0	42284.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	538.3	1.3
10°-20°	1518.8	3.6
20°-30°	2592.0	6.1
30°-40°	4149.3	9.8
40°-50°	6410.3	15.2
50°-60°	9092.1	21.5
60°-70°	12162.7	28.8
70°-80°	5282.0	12.5
80°-90°	538.6	1.3
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°	42284.2	100.0
0°-180°	42284.2	100.0



REPORT NUMBER: P269751

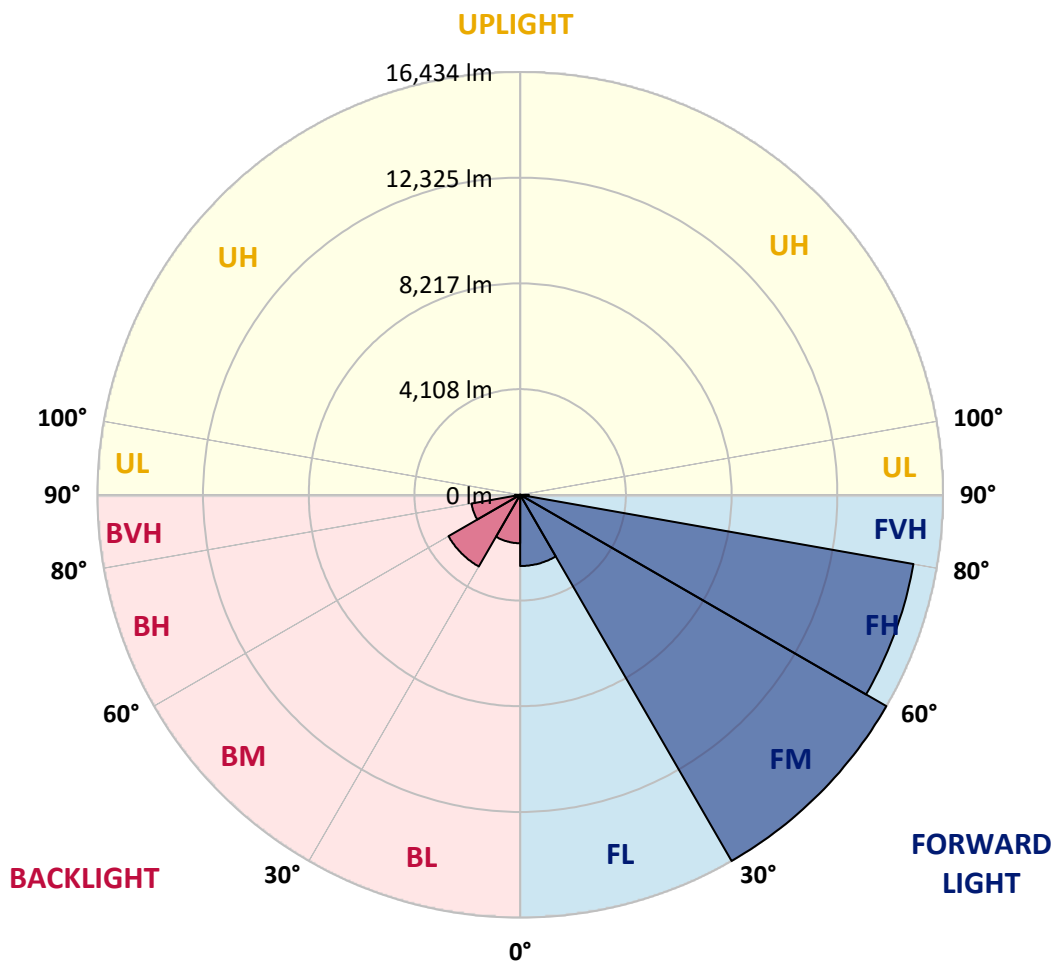
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2767.7	6.5			
FM (30°-60°)	16433.8	38.9			
FH (60°-80°)	15520.9	36.7			G5
FVH (80°-90°)	337.8	0.8			G3/500
BL (0°-30°)	1881.4	4.4	B3/2500		
BM (30°-60°)	3217.9	7.6	B3/5000		
BH (60°-80°)	1923.9	4.5	B3/2500		G3/2500
BVH (80°-90°)	200.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





REPORT NUMBER: P269751

CATALOG NUMBER: GLEON-AF-10-LED-E1-T3R-7027-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	6025.7	6025.7	6025.7	6025.7	6025.7	6025.7	6025.7	6025.7	6025.7	6025.7	6025.7
2.5°	5330.5	5366.4	5396.4	5424.3	5480.3	5572.1	5678.0	5764.0	5887.9	5911.8	5977.7
5°	4841.0	4841.0	4865.0	4906.9	4982.8	5120.7	5264.4	5456.2	5725.9	5789.9	5965.7
7.5°	4603.2	4605.3	4619.2	4655.1	4721.0	4847.0	5004.7	5230.6	5596.1	5702.0	6001.8
10°	4691.0	4671.0	4641.2	4623.1	4633.2	4707.1	4857.0	5108.7	5516.2	5652.0	6081.6
12.5°	5182.6	5144.7	5040.7	4902.9	4771.0	4717.1	4804.9	5050.7	5482.3	5640.1	6187.5
15°	5985.8	5969.7	5775.9	5490.3	5170.6	4902.9	4842.9	5028.7	5486.3	5654.1	6313.4
17.5°	6992.6	6970.7	6715.0	6299.5	5778.0	5256.5	4976.8	5046.7	5500.2	5678.0	6435.3
20°	8009.6	7941.6	7666.0	7170.5	6501.3	5738.1	5198.5	5092.8	5518.2	5704.1	6563.1
22.5°	8768.9	8712.9	8465.2	7983.6	7212.4	6295.4	5496.3	5172.6	5576.1	5780.0	6720.9
25°	9436.2	9440.1	9194.4	8728.9	7931.8	6886.8	5879.9	5386.3	5724.0	5935.8	6936.7
27.5°	10261.2	10213.3	9983.6	9522.0	8643.0	7484.1	6343.4	5680.1	5943.7	6157.5	7220.4
30°	11248.2	11214.4	10948.5	10425.1	9432.2	8125.4	6872.8	6021.7	6227.5	6449.2	7592.0
32.5°	12409.0	12393.0	12117.3	11444.0	10343.2	8880.7	7494.2	6473.2	6651.1	6880.7	8125.4
35°	13771.6	13773.6	13447.9	12638.8	11340.2	9759.7	8199.4	7054.6	7166.5	7406.3	8760.8
37.5°	14610.8	14712.6	14590.7	13765.5	12469.0	10742.8	9114.5	7825.9	7753.9	7995.6	9442.2
40°	14790.6	14914.4	15300.0	14880.5	13731.6	11825.6	9925.6	8567.0	8477.1	8772.8	10319.2
42.5°	14538.8	14710.6	15525.8	15821.5	15072.2	13160.2	11016.5	9667.9	9554.1	9951.7	11410.0
45°	14389.0	14516.8	15459.8	16311.0	16235.0	14668.7	12405.1	11050.4	11008.5	11529.9	12668.7
47.5°	14129.3	14245.1	15152.2	16424.8	16918.3	16051.3	14073.2	12740.8	12822.5	13505.8	14089.2
50°	14269.0	14317.0	14808.5	16135.1	17116.0	17064.2	15937.3	14698.6	14978.2	15831.4	15697.6
52.5°	14249.0	14373.1	14768.6	15659.7	17142.0	17689.6	17773.4	16882.3	17471.8	18450.6	17481.7
55°	11520.0	11747.8	14299.0	15539.7	17234.0	18302.8	19407.7	19183.9	20282.8	21423.6	19495.6
57.5°	11000.6	11144.4	12558.8	15791.5	17721.5	19473.6	21225.8	21717.2	23555.4	24879.9	21949.0
60°	10898.5	11076.5	12540.9	16099.2	18710.4	21381.6	23921.0	24784.1	27537.3	28987.6	24794.1
62.5°	10581.0	10772.7	12423.0	16059.2	20114.9	24020.9	27371.4	28044.6	31313.3	32723.7	27173.5
65°	9574.0	9753.7	11462.1	15413.8	21062.0	26837.9	31455.1	31033.6	34294.1	35355.0	28360.3
66°	8884.6	9060.6	10704.8	14654.7	20842.1	27637.1	32901.6	31958.6	34961.4	35792.5	28128.5
67.5°	7624.0	7761.9	9234.3	12954.5	19673.4	27860.8	34118.3	32653.8	35031.4	35325.0	26803.9
70°	4816.9	4857.0	6001.8	8942.6	14892.5	24162.7	32266.2	30927.7	32142.3	31347.3	22470.6
72.5°	2089.7	2075.9	2881.0	4549.2	8431.2	16213.0	26100.8	25519.3	25213.6	23399.5	15729.5
75°	1162.8	1178.8	1496.4	2111.7	3426.4	7963.7	17074.2	16338.9	13795.6	11771.7	7132.5
77.5°	933.0	955.0	1240.6	1498.5	1538.3	2777.1	7989.6	6501.3	3913.9	3140.7	1981.9
80°	737.1	777.3	1082.8	1166.8	1037.0	1144.8	2581.3	2063.9	1548.4	1420.5	1026.9
82.5°	583.4	611.3	929.0	883.0	725.2	771.1	1236.6	1204.7	1006.9	917.0	593.4
85°	419.6	471.5	763.2	665.4	475.6	519.5	821.1	787.2	577.4	471.5	261.8
87.5°	171.8	223.8	539.4	441.5	265.7	241.7	409.5	385.6	273.8	199.9	129.8
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: P269751

CATALOG NUMBER: GLEON-AF-10-LED-E1-T3R-7027-800

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6025.7	6025.7	6025.7	6025.7	6025.7	6025.7	6025.7	6025.7	6025.7	6025.7	6025.7
2.5°	6019.7	6067.6	6129.6	6167.6	6187.5	6201.4	6223.5	6221.5	6227.5	6229.4	6237.6
5°	6059.6	6139.6	6229.4	6253.5	6253.5	6231.5	6209.5	6173.5	6159.6	6155.5	6159.6
7.5°	6163.5	6251.5	6329.4	6301.4	6241.5	6153.6	6039.7	5939.9	5885.9	5867.9	5863.9
10°	6295.4	6401.3	6433.3	6327.4	6151.6	5939.9	5713.9	5550.2	5456.2	5430.3	5422.3
12.5°	6455.2	6555.1	6511.2	6287.4	5961.8	5620.2	5308.4	5046.7	4850.9	4789.0	4785.0
15°	6631.1	6709.0	6555.1	6163.5	5678.0	5174.5	4619.2	4167.6	3923.8	3846.0	3840.0
17.5°	6794.9	6834.8	6529.2	5947.8	5260.6	4445.4	3708.2	3360.5	3276.6	3296.6	3300.6
20°	6934.7	6934.7	6441.2	5638.1	4603.2	3484.3	3018.8	3012.8	3072.8	3132.7	3144.6
22.5°	7088.5	6996.7	6287.4	5200.6	3672.1	2851.0	2783.0	2839.1	2906.9	2972.9	2982.9
25°	7278.3	7046.7	6073.6	4537.2	2887.1	2589.3	2615.2	2661.1	2695.2	2737.1	2743.2
27.5°	7490.2	7110.5	5791.9	3624.2	2505.5	2425.5	2445.5	2461.4	2457.5	2473.5	2477.4
30°	7743.8	7184.5	5406.4	2833.1	2347.5	2285.6	2249.6	2235.6	2235.6	2261.7	2271.6
32.5°	8083.6	7294.3	4853.0	2427.5	2271.6	2185.8	2069.9	2018.0	2037.8	2125.7	2145.7
35°	8457.2	7412.3	4103.6	2289.6	2255.6	2139.8	1959.9	1864.1	1866.0	1948.0	1973.9
37.5°	8864.7	7562.1	3282.5	2263.5	2291.5	2141.7	1902.0	1770.1	1716.2	1716.2	1726.3
40°	9386.2	7715.9	2657.2	2281.7	2367.6	2165.8	1872.1	1696.2	1544.4	1548.4	1556.4
42.5°	10065.5	7847.9	2321.6	2319.6	2459.4	2197.8	1870.0	1598.4	1466.5	1556.4	1638.2
45°	10820.7	7913.7	2173.7	2353.5	2533.3	2217.6	1838.1	1582.4	1476.5	1744.1	1900.1
47.5°	11689.7	7875.8	2091.9	2365.5	2551.4	2217.6	1802.1	1620.4	1546.4	2019.8	2201.7
50°	12642.7	7765.8	2011.9	2341.5	2545.3	2213.8	1836.0	1658.4	1572.4	2067.9	2193.8
52.5°	13763.7	7674.0	1928.0	2289.6	2503.3	2191.8	1876.0	1642.3	1490.5	1880.1	1967.9
55°	15042.3	7699.9	1834.1	2215.7	2437.5	2149.7	1862.0	1578.3	1404.5	1656.2	1710.3
57.5°	16676.6	8009.6	1722.2	2121.7	2347.5	2079.8	1812.2	1548.4	1378.5	1502.4	1534.3
60°	18500.7	8549.1	1582.4	2027.8	2235.6	1967.9	1774.2	1562.3	1390.5	1490.5	1506.4
62.5°	19839.2	8862.8	1462.5	1890.0	2083.8	1844.1	1726.3	1580.4	1422.6	1532.4	1528.3
65°	20202.9	8347.3	1312.7	1688.3	1878.0	1714.2	1666.3	1600.3	1436.5	1566.4	1548.4
66°	19693.5	7791.9	1246.7	1594.3	1774.2	1650.2	1636.4	1598.4	1430.6	1570.3	1540.5
67.5°	18456.7	6653.0	1132.9	1456.5	1608.3	1554.3	1588.4	1580.4	1414.6	1566.4	1524.5
70°	15052.3	4539.2	969.0	1212.7	1338.7	1368.6	1496.4	1516.3	1362.5	1496.4	1404.5
72.5°	10516.9	2765.2	857.2	941.1	1082.8	1166.8	1370.5	1428.6	1292.7	1306.7	1218.7
75°	5082.7	1468.5	777.3	729.2	841.2	975.0	1218.7	1308.7	1182.8	1092.9	1060.9
77.5°	1584.3	897.0	659.4	587.4	659.4	787.2	1018.9	1146.7	1053.0	915.1	903.1
80°	851.1	659.4	507.5	471.5	521.5	617.3	801.2	957.1	905.0	821.1	733.2
82.5°	561.4	427.6	375.6	365.6	397.6	471.5	595.3	793.2	793.2	703.3	511.5
85°	289.8	261.8	257.8	257.8	277.7	313.7	405.6	611.3	651.4	371.5	307.7
87.5°	143.9	149.8	139.9	145.9	155.9	153.8	193.9	307.7	367.6	225.7	187.7
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)