

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: P191536

Luminaire Tested: **GLEON-AF-08-LED-E1-T4FT**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191536  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)  
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-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 49093.5 lumens  
Efficiency: N/A  
Efficacy: 110.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

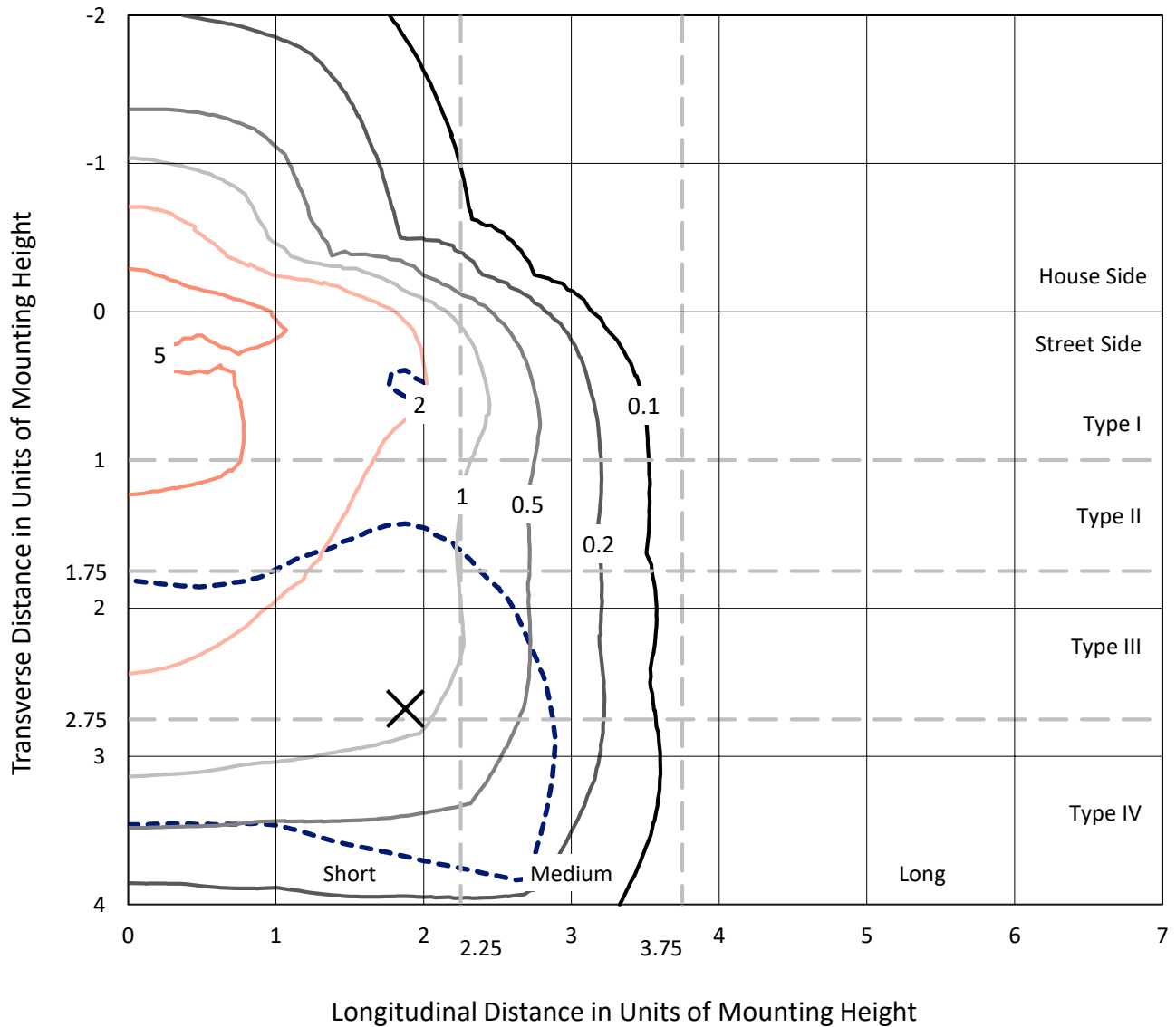
Input Watts (W): 445  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

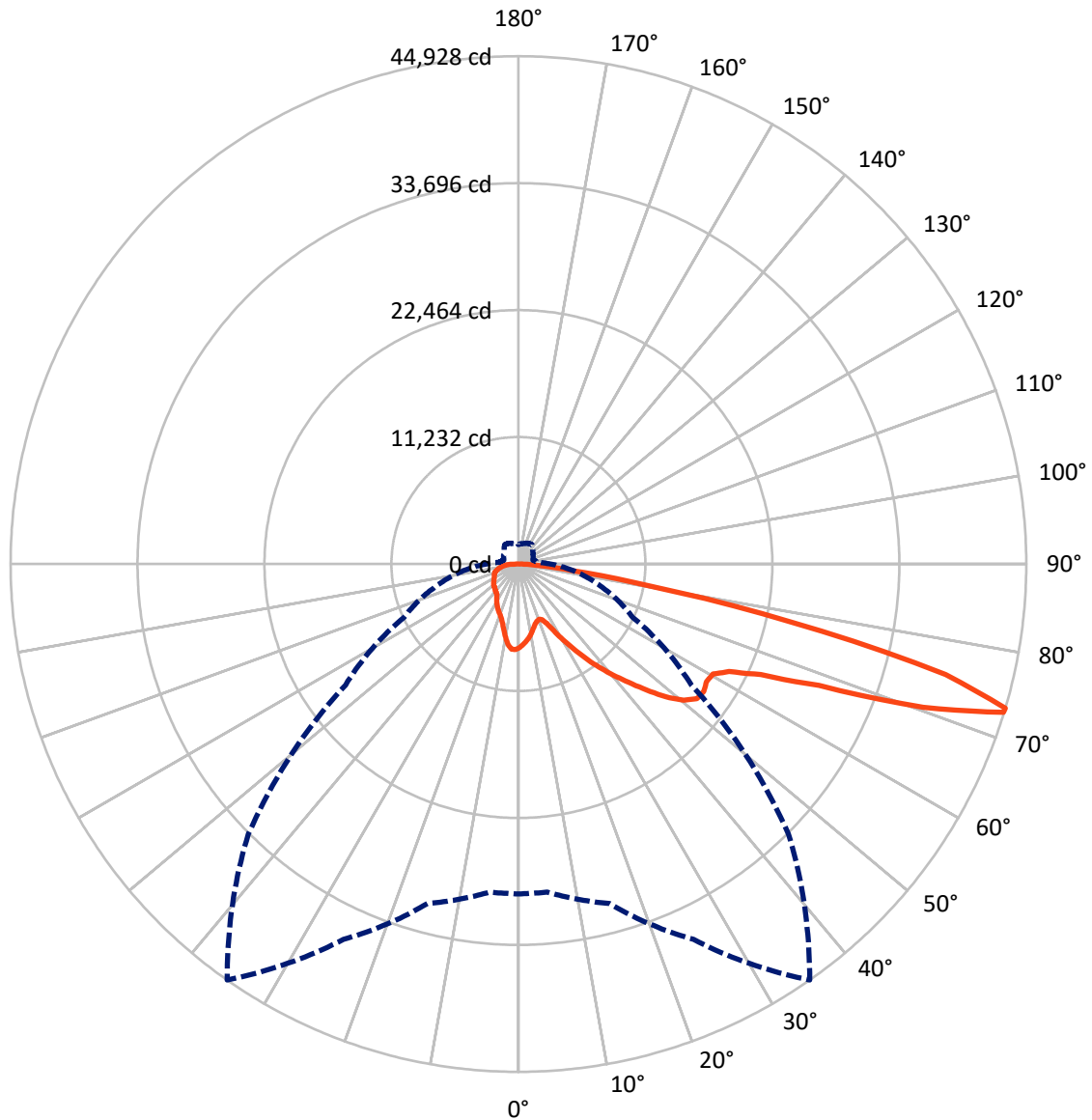
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.2 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9363.5	0.0	9363.5
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	39730.0	0.0	39730.0
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	49093.5	0.0	49093.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	670.8	1.4
10°-20°	1674.2	3.4
20°-30°	2706.6	5.5
30°-40°	4538.6	9.2
40°-50°	6996.0	14.3
50°-60°	9385.9	19.1
60°-70°	12503.9	25.5
70°-80°	9536.7	19.4
80°-90°	1080.9	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°	49093.5	100.0
0°-180°	49093.5	100.0



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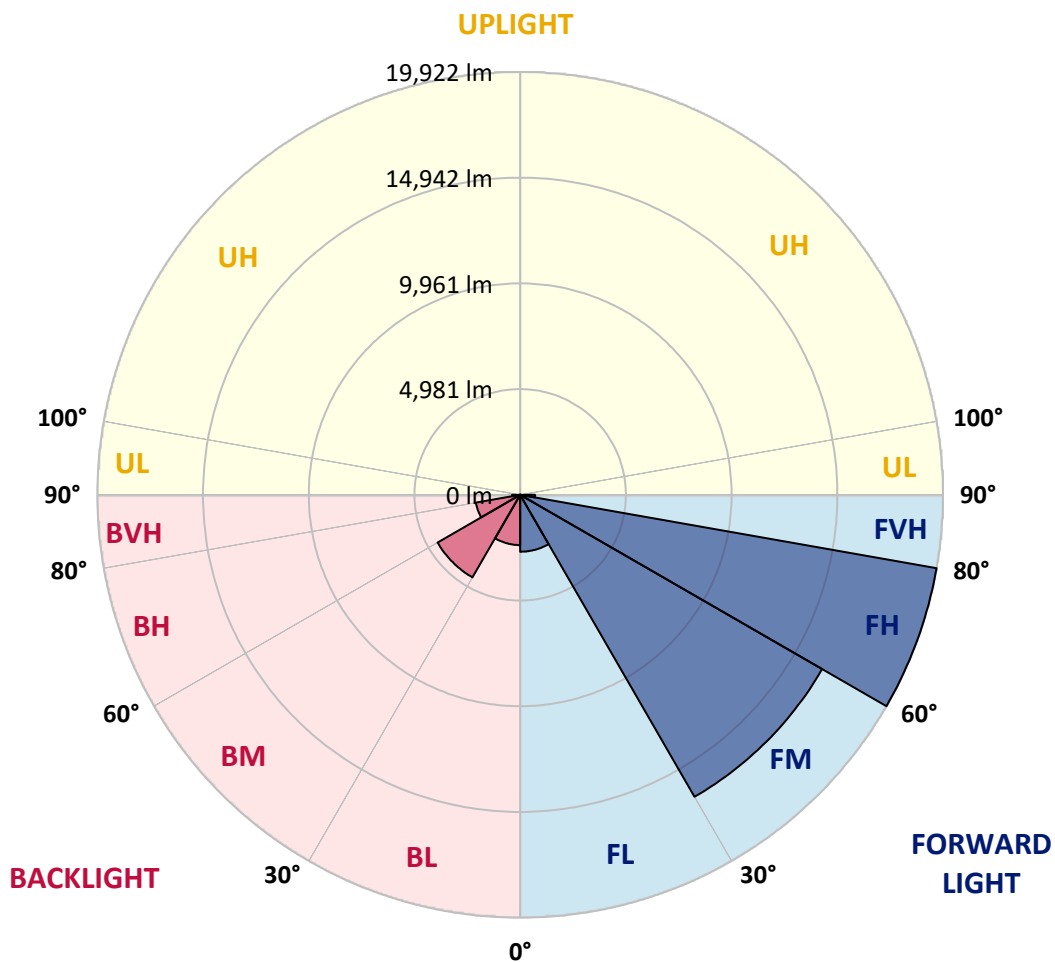
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2682.2	5.5			
FM	(30°-60°)	16427.0	33.5			
FH	(60°-80°)	19922.1	40.6			G5
FVH	(80°-90°)	698.7	1.4			G4/750
BL	(0°-30°)	2369.4	4.8	B3/2500		
BM	(30°-60°)	4493.4	9.2	B3/5000		
BH	(60°-80°)	2118.4	4.3	B3/2500		G3/2500
BVH	(80°-90°)	382.2	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7409.7	7409.7	7409.7	7409.7	7409.7	7409.7	7409.7	7409.7	7409.7	7409.7	7409.7
2.5°	7117.4	7131.5	7115.0	7136.2	7171.6	7209.3	7235.2	7273.0	7315.4	7374.4	7388.5
5°	6782.6	6803.9	6803.9	6841.6	6909.9	6971.2	7027.8	7089.2	7178.7	7280.0	7320.1
7.5°	6414.8	6426.6	6447.9	6504.4	6603.5	6690.7	6770.8	6869.8	6992.5	7126.8	7197.6
10°	5971.7	5988.1	6021.2	6101.3	6235.7	6355.9	6471.4	6608.2	6763.8	6931.1	7020.7
12.5°	5658.0	5653.3	5667.6	5726.5	5844.3	5990.5	6157.9	6332.4	6523.3	6718.9	6827.4
15°	5552.0	5526.1	5471.9	5457.6	5521.4	5667.6	5860.8	6075.4	6304.0	6539.8	6674.1
17.5°	5618.0	5573.2	5424.7	5316.3	5306.8	5417.6	5622.8	5863.1	6127.3	6414.8	6582.3
20°	6033.0	5926.9	5561.4	5309.1	5222.0	5276.2	5455.3	5709.9	6021.2	6403.1	6617.6
22.5°	7025.4	6869.8	6094.2	5625.1	5330.4	5264.4	5398.7	5669.9	6033.0	6549.2	6822.7
25°	8470.6	8249.0	7009.0	6412.5	5804.2	5452.9	5483.6	5761.8	6200.3	6888.8	7218.8
27.5°	9611.6	9467.8	8204.2	7522.9	6667.1	5962.2	5759.4	5992.9	6542.2	7445.1	7782.2
30°	10290.7	10203.4	9482.0	8781.8	7768.1	6773.2	6287.6	6426.6	7077.3	8216.0	8494.2
32.5°	11078.0	11026.2	10672.5	10028.9	8956.2	7838.8	7124.4	7074.9	7794.0	9142.5	9269.8
35°	11893.7	11877.3	11669.8	11207.8	10231.7	9243.9	8234.9	7900.0	8574.4	10104.4	10024.2
37.5°	12652.9	12624.5	12504.3	12235.6	11566.1	10752.7	9366.4	8746.4	9416.0	11023.8	10667.8
40°	14050.9	13829.3	13416.7	13214.0	12914.5	12023.5	10264.7	9536.3	10288.2	11900.8	11224.2
42.5°	15755.4	15394.7	14626.2	14347.9	14305.6	13025.3	10877.6	10302.4	11167.7	12770.7	11771.2
45°	17096.8	16757.4	16094.9	15743.6	15899.2	13933.0	11493.0	11120.5	12073.0	13683.1	12334.6
47.5°	18527.9	17995.0	17118.1	17224.1	17563.7	14791.2	12120.1	11999.8	13065.4	14703.9	13034.8
50°	18579.8	18171.9	17787.6	18421.8	18949.9	15581.0	12905.1	12921.6	14279.6	15988.8	13966.0
52.5°	17502.3	17415.1	18025.7	19022.9	19784.4	16205.7	13798.7	13874.1	15833.2	17464.6	14989.2
55°	17125.1	17026.1	17731.0	18813.1	19897.6	16722.0	14767.6	14904.3	17712.2	19020.5	15986.5
57.5°	18044.5	17825.3	17872.5	18714.1	19621.7	17287.8	15823.7	16099.6	19753.8	20380.9	16627.7
60°	20614.3	20145.1	19254.0	19232.8	19770.3	18136.5	17044.9	17382.1	21875.6	21031.6	16377.7
62.5°	24219.0	23749.7	22080.7	20993.8	20913.7	19536.9	18544.4	18634.0	23101.5	20149.9	14852.4
65°	28120.6	27701.0	25836.3	24301.4	23561.2	21856.7	20286.5	19192.7	22700.7	17724.0	12183.8
67.5°	32857.0	32406.7	30803.5	29386.6	28674.6	25600.5	21510.1	18657.5	20156.9	13730.3	8758.2
70°	36169.3	35709.6	35077.7	36225.9	37968.0	31001.5	21668.0	16481.5	15055.2	9126.1	5271.5
72.5°	31847.9	31633.4	32786.2	37621.5	44878.0	34278.6	19586.3	11999.8	8744.1	4844.7	3050.6
73°	29179.2	29132.0	31098.2	36643.1	44927.5	33774.1	18674.1	11153.5	7499.4	4286.0	2789.0
75°	13176.2	13555.8	17865.4	27988.7	39033.7	27830.7	13143.3	6398.4	4236.4	2961.0	2105.2
77.5°	3166.1	3298.2	5589.7	13291.8	24650.4	16585.2	5955.1	3163.8	2708.8	2091.1	1537.1
80°	1348.6	1393.3	2152.4	4910.8	11606.1	6678.8	2744.2	2119.5	1874.3	1459.3	1077.4
82.5°	749.7	796.9	1221.2	2227.9	4684.4	2277.4	1673.9	1475.8	1233.0	879.3	700.2
85°	424.3	450.3	714.3	1244.7	1985.0	914.7	1002.0	980.7	695.5	452.7	344.2
87.5°	200.4	216.9	344.2	577.6	778.0	358.3	509.2	561.1	436.2	275.8	179.2
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7409.7	7409.7	7409.7	7409.7	7409.7	7409.7	7409.7	7409.7	7409.7	7409.7
2.5°	7405.0	7447.5	7497.0	7522.9	7546.5	7574.7	7603.1	7603.1	7607.8	7610.1
5°	7353.2	7440.3	7518.2	7551.2	7558.3	7558.3	7551.2	7513.5	7480.4	7494.6
7.5°	7244.7	7372.0	7438.0	7426.2	7336.6	7232.9	7145.7	7039.6	6985.3	6975.9
10°	7089.2	7235.2	7247.1	7129.1	6907.6	6686.0	6502.1	6322.9	6238.1	6216.8
12.5°	6917.0	7051.4	6975.9	6733.2	6377.2	6054.1	5820.8	5639.2	5559.0	5537.8
15°	6777.9	6869.8	6678.8	6297.0	5849.0	5507.2	5313.9	5179.5	5122.9	5106.5
17.5°	6704.8	6723.7	6374.7	5858.4	5382.3	5097.0	4976.8	4913.1	4891.9	4880.1
20°	6740.2	6608.2	6084.8	5450.6	5000.3	4799.9	4771.7	4755.2	4750.4	4743.3
22.5°	6917.0	6572.8	5818.4	5064.0	4665.6	4578.3	4601.9	4599.6	4594.8	4590.1
25°	7232.9	6603.5	5559.0	4696.2	4385.0	4366.2	4408.6	4408.6	4389.7	4389.7
27.5°	7650.2	6667.1	5269.1	4347.3	4130.4	4132.7	4165.8	4156.4	4135.1	4121.0
30°	8159.5	6707.2	4929.6	4033.7	3892.3	3882.8	3892.3	3852.2	3788.6	3783.8
32.5°	8680.5	6657.7	4535.9	3755.6	3640.1	3618.8	3611.7	3555.2	3482.1	3460.8
35°	9151.9	6476.1	4135.1	3534.0	3399.6	3352.4	3385.5	3366.5	3300.6	3284.1
37.5°	9496.2	6139.0	3774.4	3338.3	3227.5	3215.6	3236.9	3244.0	3166.1	3149.7
40°	9727.1	5681.7	3465.6	3173.2	3194.5	3149.7	3079.0	3029.5	3005.8	2998.8
42.5°	9913.4	5205.4	3206.2	3095.4	3201.5	3071.8	2918.6	2838.5	2880.9	2899.8
45°	10127.9	4741.0	2989.4	2998.8	3166.1	2982.3	2807.8	2730.1	2746.5	2751.2
47.5°	10422.6	4175.2	2755.9	2843.2	3048.3	2920.9	2739.5	2628.7	2550.8	2515.5
50°	10830.5	3505.7	2513.1	2668.8	2932.8	2876.2	2633.4	2515.5	2371.7	2338.7
52.5°	11113.4	2880.9	2312.8	2522.6	2829.1	2786.6	2548.5	2395.2	2244.4	2216.1
55°	10960.2	2392.9	2138.3	2359.8	2692.3	2675.8	2477.8	2272.7	2154.7	2131.2
57.5°	10194.0	2084.1	2003.9	2206.6	2524.9	2581.5	2383.5	2169.0	2084.1	2067.6
60°	8732.3	1890.7	1919.1	2102.9	2388.2	2487.2	2289.2	2112.4	2055.7	2044.0
62.5°	6775.5	1761.1	1855.4	2027.5	2282.1	2421.2	2237.3	2105.2	2084.1	2069.9
65°	4854.2	1657.4	1787.0	1952.0	2185.4	2359.8	2218.5	2095.8	2100.5	2088.8
67.5°	3298.2	1565.4	1704.5	1867.2	2091.1	2305.6	2192.5	2062.9	2121.8	2107.6
70°	2308.0	1475.8	1607.9	1758.8	1973.3	2230.2	2145.3	2013.4	2008.7	1952.0
72.5°	1801.1	1358.0	1475.8	1607.9	1822.4	2124.2	2051.0	1902.5	1824.7	1765.8
73°	1718.7	1329.6	1442.8	1574.8	1789.3	2098.2	2025.1	1871.9	1784.6	1730.4
75°	1421.6	1207.1	1310.8	1428.7	1647.9	1975.6	1897.8	1732.8	1622.0	1588.9
77.5°	1117.5	1032.6	1131.6	1237.7	1452.3	1796.4	1709.2	1551.3	1489.9	1461.7
80°	827.5	855.8	943.1	1037.3	1258.9	1605.5	1527.7	1369.7	1643.2	1574.8
82.5°	582.3	648.3	728.4	813.3	1056.2	1419.2	1324.9	1162.3	1202.4	999.6
85°	344.2	424.3	499.8	572.9	761.5	1176.4	1093.9	926.5	759.1	723.7
87.5°	200.4	235.8	257.0	332.5	523.3	886.4	770.9	686.1	393.7	266.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)