

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: P194088

Luminaire Tested: **GLEON-AF-10-LED-E1-T4FT-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194088  
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-10-LED-E1-T4FT-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 3000K, 1200mA 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: 53056 lumens  
Efficiency: N/A  
Efficacy: 82.9 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-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

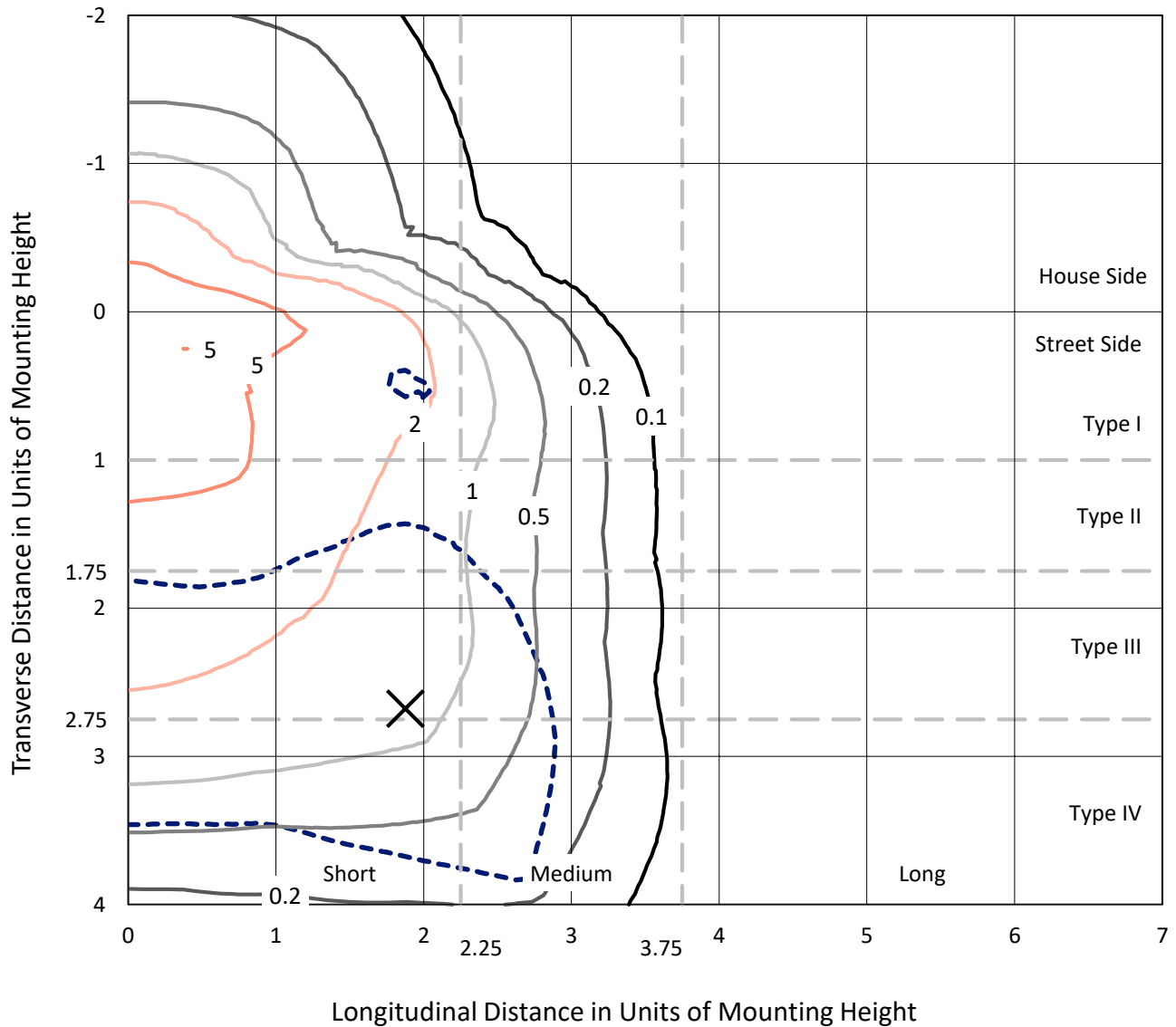


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

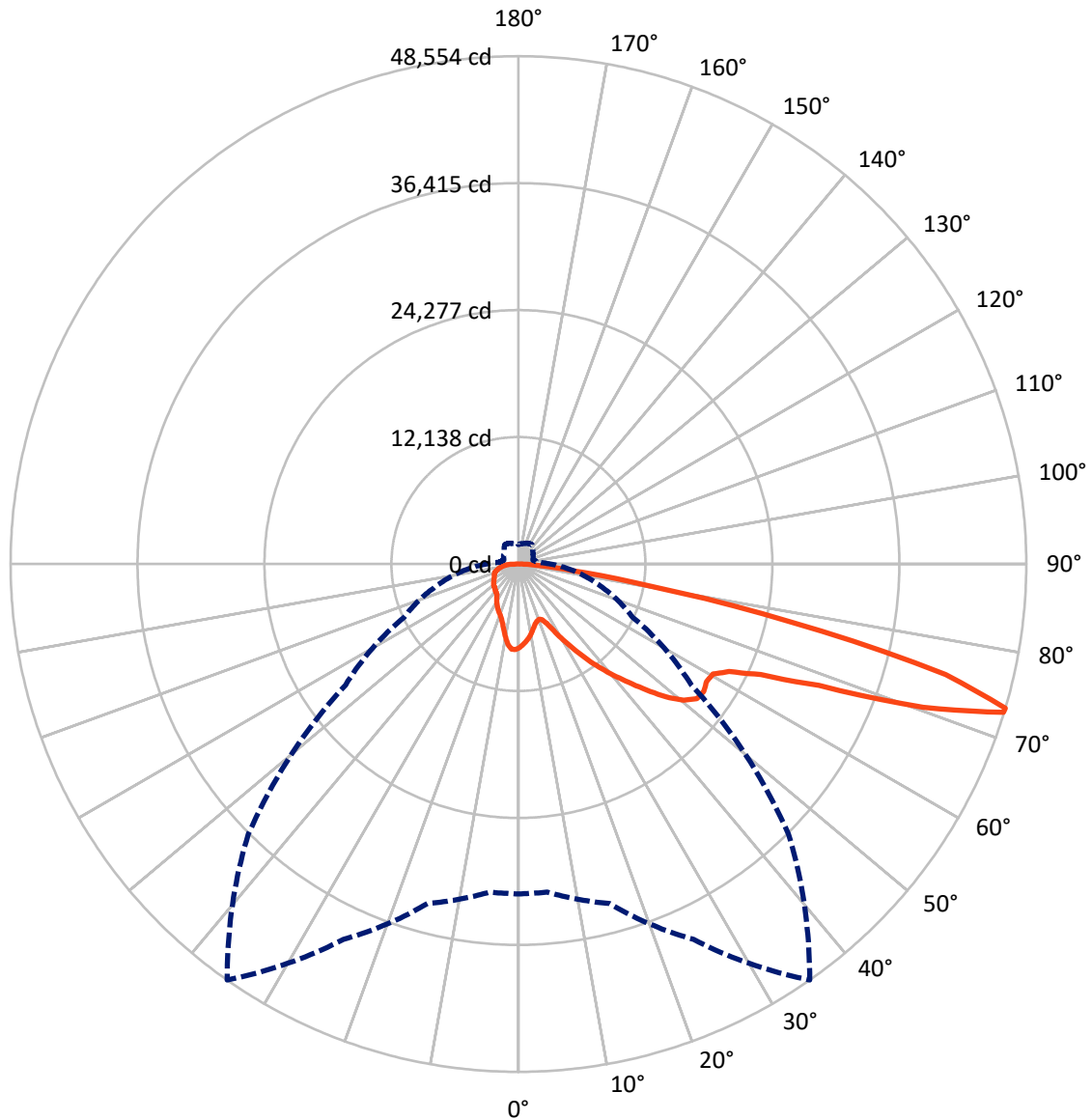


Based on 30 foot mounting height. Maximum calculated value = 8.9 fc  
 Type IV - Short - Non-Cutoff

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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	10119.2	0.0	10119.2
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	42936.8	0.0	42936.8
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	53056.0	0.0	53056.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	724.9	1.4
10°-20°	1809.3	3.4
20°-30°	2925.0	5.5
30°-40°	4904.9	9.2
40°-50°	7560.7	14.3
50°-60°	10143.4	19.1
60°-70°	13513.1	25.5
70°-80°	10306.4	19.4
80°-90°	1168.2	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°	53056.0	100.0
0°-180°	53056.0	100.0



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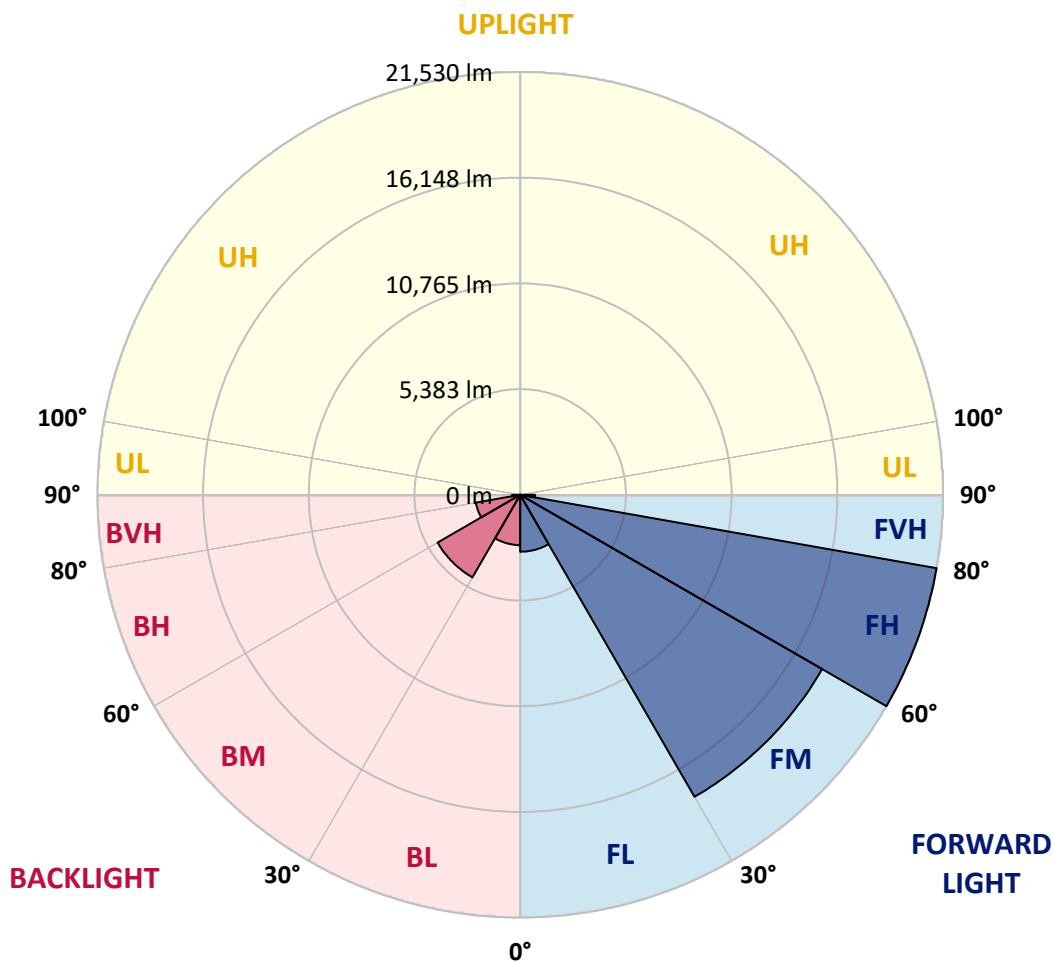
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2898.6	5.5			
FM	(30°-60°)	17752.9	33.5			
FH	(60°-80°)	21530.1	40.6			G5
FVH	(80°-90°)	755.1	1.4			G5
BL	(0°-30°)	2560.7	4.8	B4/5000		
BM	(30°-60°)	4856.1	9.2	B3/5000		
BH	(60°-80°)	2289.4	4.3	B3/2500		G3/2500
BVH	(80°-90°)	413.1	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8007.8	8007.8	8007.8	8007.8	8007.8	8007.8	8007.8	8007.8	8007.8	8007.8	8007.8
2.5°	7691.9	7707.2	7689.3	7712.3	7750.5	7791.2	7819.3	7860.0	7905.9	7969.6	7984.9
5°	7330.1	7353.0	7353.0	7393.8	7467.7	7533.9	7595.1	7661.3	7758.1	7867.7	7911.0
7.5°	6932.6	6945.4	6968.3	7029.4	7136.4	7230.7	7317.3	7424.3	7556.8	7702.1	7778.5
10°	6453.6	6471.5	6507.1	6593.8	6739.0	6868.9	6993.8	7141.5	7309.7	7490.6	7587.4
12.5°	6114.8	6109.7	6125.0	6188.7	6316.0	6474.0	6654.9	6843.4	7049.8	7261.3	7378.5
15°	6000.1	5972.1	5913.5	5898.2	5967.0	6125.0	6333.9	6565.7	6812.9	7067.7	7212.9
17.5°	6071.5	6023.0	5862.5	5745.3	5735.1	5854.9	6076.6	6336.4	6621.8	6932.6	7113.5
20°	6519.9	6405.2	6010.3	5737.7	5643.4	5702.0	5895.7	6170.8	6507.1	6919.9	7151.7
22.5°	7592.5	7424.3	6586.1	6079.1	5760.6	5689.3	5834.5	6127.5	6519.9	7077.8	7373.4
25°	9154.3	8914.8	7574.7	6930.1	6272.7	5893.1	5926.2	6226.9	6700.8	7444.7	7801.4
27.5°	10387.5	10232.0	8866.4	8130.1	7205.2	6443.4	6224.3	6476.6	7070.2	8046.0	8410.4
30°	11121.2	11027.0	10247.3	9490.6	8395.1	7319.9	6795.0	6945.4	7648.6	8879.2	9179.8
32.5°	11972.2	11916.2	11534.0	10838.4	9679.2	8471.5	7699.5	7646.0	8423.1	9880.4	10018.0
35°	12853.8	12835.9	12611.7	12112.3	11057.5	9990.0	8899.5	8537.7	9266.4	10920.0	10833.3
37.5°	13674.2	13643.6	13513.6	13223.2	12499.6	11620.6	10122.5	9452.4	10176.0	11913.6	11528.9
40°	15185.0	14945.5	14499.6	14280.5	13957.0	12993.9	11093.2	10305.9	11118.7	12861.4	12130.2
42.5°	17027.1	16637.3	15806.7	15506.0	15460.2	14076.7	11755.6	11134.0	12069.0	13801.5	12721.3
45°	18476.8	18109.9	17394.0	17014.3	17182.5	15057.6	12420.6	12018.1	13047.4	14787.5	13330.2
47.5°	20023.3	19447.5	18499.7	18614.4	18981.3	15985.0	13098.3	12968.4	14120.0	15890.8	14086.9
50°	20079.4	19638.6	19223.3	19908.7	20479.4	16838.5	13946.8	13964.6	15432.1	17279.3	15093.3
52.5°	18915.0	18820.7	19480.6	20558.4	21381.3	17513.7	14912.4	14993.9	17111.2	18874.3	16199.0
55°	18507.4	18400.4	19162.2	20331.6	21503.6	18071.7	15959.5	16107.3	19141.8	20555.8	17276.8
57.5°	19501.0	19264.1	19315.0	20224.6	21205.5	18683.2	17101.0	17399.1	21348.2	22025.9	17969.8
60°	22278.1	21771.1	20808.0	20785.1	21366.0	19600.4	18420.7	18785.1	23641.2	22729.1	17699.7
62.5°	26173.8	25666.7	23862.9	22688.3	22601.7	21113.8	20041.2	20138.0	24966.1	21776.2	16051.3
65°	30390.4	29936.9	27921.6	26262.9	25462.9	23620.8	21924.0	20741.8	24533.0	19154.5	13167.1
67.5°	35509.0	35022.3	33289.8	31758.6	30989.1	27666.8	23246.3	20163.4	21783.9	14838.5	9465.2
70°	39088.7	38591.8	37909.0	39149.8	41032.6	33503.8	23417.0	17811.8	16270.4	9862.6	5696.9
72.5°	34418.5	34186.7	35432.5	40658.1	48500.3	37045.3	21167.3	12968.4	9449.9	5235.8	3296.9
73°	31534.4	31483.4	33608.3	39600.8	48553.8	36500.1	20181.3	12053.7	8104.6	4631.9	3014.1
75°	14239.8	14650.0	19307.4	30247.7	42184.3	30077.0	14204.1	6914.8	4578.4	3200.1	2275.2
77.5°	3421.7	3564.4	6040.9	14364.6	26640.0	17923.9	6435.8	3419.2	2927.4	2259.9	1661.2
80°	1457.4	1505.8	2326.2	5307.1	12542.9	7218.0	2965.7	2290.5	2025.5	1577.1	1164.4
82.5°	810.2	861.2	1319.8	2407.7	5062.5	2461.2	1809.0	1594.9	1332.5	950.3	756.7
85°	458.6	486.6	772.0	1345.2	2145.3	988.6	1082.8	1059.9	751.6	489.2	372.0
87.5°	216.6	234.4	372.0	624.2	840.8	387.3	550.3	606.4	471.3	298.1	193.6
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°	8007.8	8007.8	8007.8	8007.8	8007.8	8007.8	8007.8	8007.8	8007.8	8007.8
2.5°	8002.7	8048.6	8102.1	8130.1	8155.6	8186.1	8216.7	8216.7	8221.8	8224.4
5°	7946.7	8040.9	8125.0	8160.7	8168.3	8168.3	8160.7	8119.9	8084.2	8099.5
7.5°	7829.5	7967.0	8038.4	8025.6	7928.8	7816.7	7722.4	7607.8	7549.2	7539.0
10°	7661.3	7819.3	7832.0	7704.6	7465.1	7225.6	7026.9	6833.3	6741.5	6718.6
12.5°	7475.3	7620.5	7539.0	7276.6	6891.9	6542.8	6290.6	6094.4	6007.8	5984.8
15°	7325.0	7424.3	7218.0	6805.2	6321.1	5951.7	5742.8	5597.6	5536.4	5518.6
17.5°	7246.0	7266.4	6889.3	6331.3	5816.7	5508.4	5378.4	5309.7	5286.7	5274.0
20°	7284.2	7141.5	6575.9	5890.6	5403.9	5187.4	5156.8	5139.0	5133.9	5126.2
22.5°	7475.3	7103.3	6288.0	5472.7	5042.1	4947.9	4973.3	4970.8	4965.7	4960.6
25°	7816.7	7136.4	6007.8	5075.3	4738.9	4718.6	4764.4	4764.4	4744.0	4744.0
27.5°	8267.7	7205.2	5694.4	4698.2	4463.8	4466.3	4502.0	4491.8	4468.9	4453.6
30°	8818.0	7248.5	5327.5	4359.3	4206.5	4196.3	4206.5	4163.1	4094.3	4089.3
32.5°	9381.1	7195.0	4902.0	4058.7	3933.8	3910.9	3903.3	3842.1	3763.1	3740.2
35°	9890.6	6998.9	4468.9	3819.2	3674.0	3623.0	3658.7	3638.3	3566.9	3549.1
37.5°	10262.6	6634.5	4079.1	3607.7	3488.0	3475.2	3498.2	3505.8	3421.7	3403.9
40°	10512.3	6140.2	3745.3	3429.4	3452.3	3403.9	3327.5	3273.9	3248.5	3240.8
42.5°	10713.6	5625.6	3465.0	3345.3	3459.9	3319.8	3154.2	3067.6	3113.4	3133.8
45°	10945.4	5123.7	3230.6	3240.8	3421.7	3223.0	3034.5	2950.4	2968.2	2973.3
47.5°	11263.9	4512.2	2978.4	3072.7	3294.3	3156.7	2960.6	2840.8	2756.7	2718.5
50°	11704.7	3788.6	2716.0	2884.1	3169.5	3108.3	2845.9	2718.5	2563.1	2527.4
52.5°	12010.4	3113.4	2499.4	2726.2	3057.4	3011.5	2754.2	2588.6	2425.5	2395.0
55°	11844.8	2586.0	2310.9	2550.4	2909.6	2891.8	2677.8	2456.1	2328.7	2303.2
57.5°	11016.8	2252.3	2165.6	2384.8	2728.7	2789.9	2575.8	2344.0	2252.3	2234.4
60°	9437.1	2043.4	2073.9	2272.7	2580.9	2688.0	2473.9	2282.8	2221.7	2209.0
62.5°	7322.4	1903.2	2005.1	2191.1	2466.3	2616.6	2417.9	2275.2	2252.3	2237.0
65°	5246.0	1791.1	1931.2	2109.6	2361.8	2550.4	2397.5	2265.0	2270.1	2257.4
67.5°	3564.4	1691.8	1842.1	2017.9	2259.9	2491.8	2369.5	2229.3	2293.0	2277.8
70°	2494.3	1594.9	1737.6	1900.7	2132.5	2410.2	2318.5	2175.8	2170.7	2109.6
72.5°	1946.5	1467.5	1594.9	1737.6	1969.5	2295.6	2216.6	2056.1	1972.0	1908.3
73°	1857.4	1437.0	1559.3	1701.9	1933.8	2267.6	2188.6	2023.0	1928.7	1870.1
75°	1536.3	1304.5	1416.6	1544.0	1780.9	2135.1	2051.0	1872.6	1752.9	1717.2
77.5°	1207.7	1115.9	1223.0	1337.6	1569.5	1941.4	1847.2	1676.5	1610.2	1579.6
80°	894.3	924.9	1019.1	1121.0	1360.5	1735.1	1651.0	1480.3	1775.8	1701.9
82.5°	629.3	700.7	787.3	879.0	1141.4	1533.8	1431.9	1256.1	1299.4	1080.3
85°	372.0	458.6	540.1	619.1	822.9	1271.4	1182.2	1001.3	820.4	782.2
87.5°	216.6	254.8	277.7	359.2	565.6	958.0	833.1	741.4	425.5	287.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)