

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: P192338

Luminaire Tested: **GLEON-AF-10-LED-E1-T4FT-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192338  
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-7050  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 5000K, 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: 59271 lumens  
Efficiency: N/A  
Efficacy: 106.2 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): 558  
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

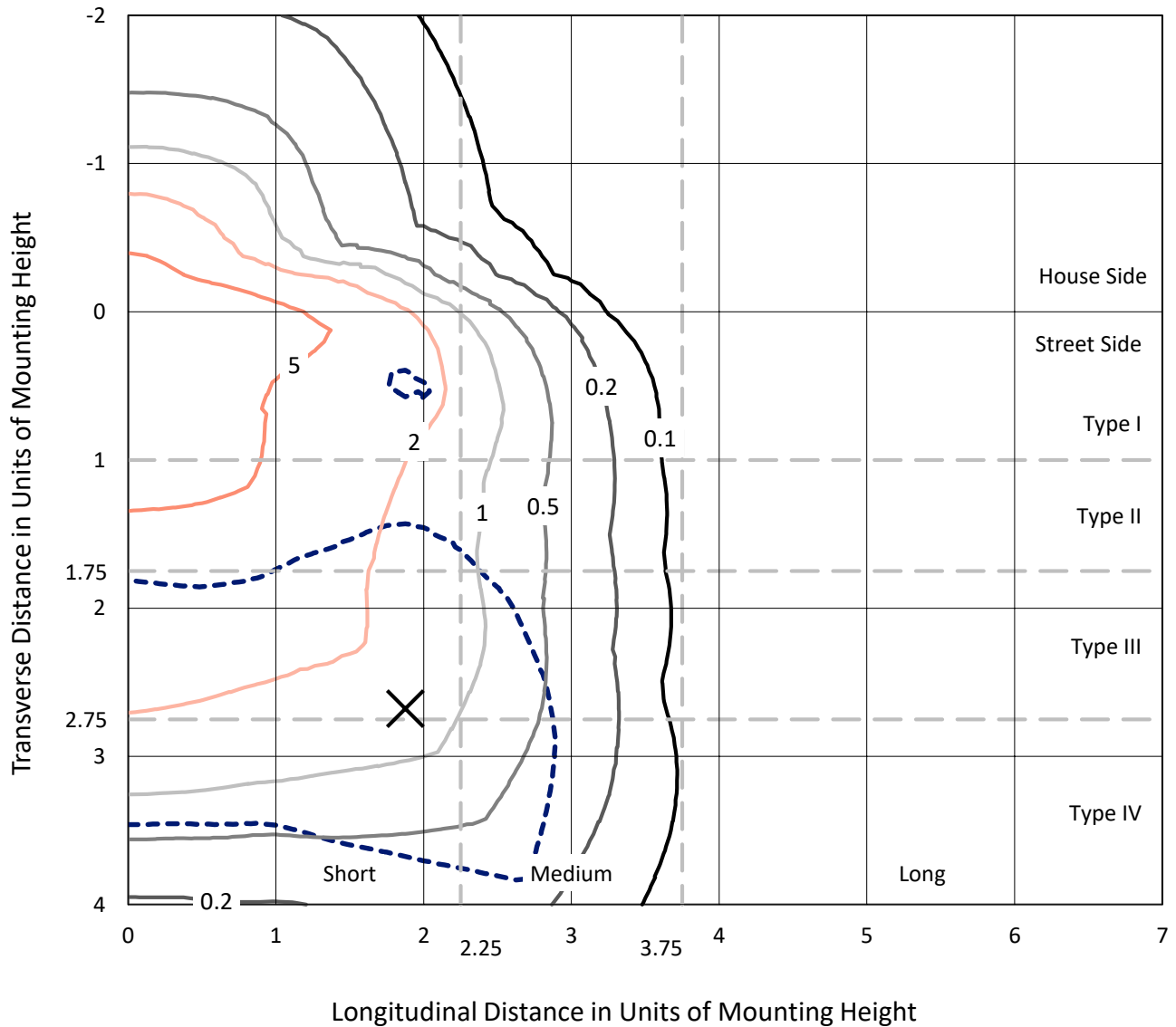


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### Iso-Footcandle Lines of Horizontal Illumination

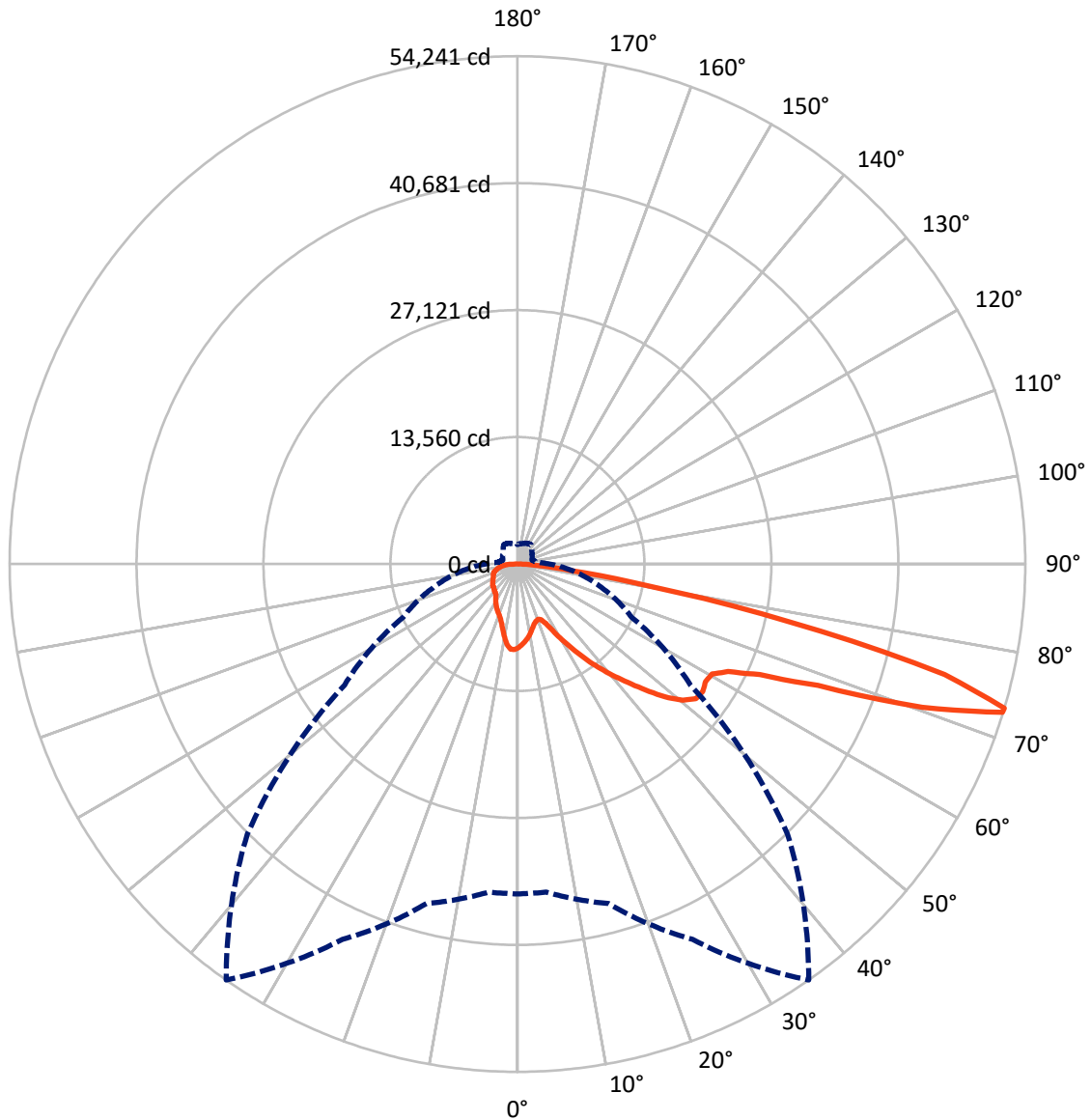
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.9 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	11304.6	0.0	11304.6
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	47966.4	0.0	47966.4
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	59271.0	0.0	59271.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	809.9	1.4
10°-20°	2021.3	3.4
20°-30°	3267.7	5.5
30°-40°	5479.4	9.2
40°-50°	8446.3	14.3
50°-60°	11331.6	19.1
60°-70°	15096.0	25.5
70°-80°	11513.7	19.4
80°-90°	1305.0	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°	59271.0	100.0
0°-180°	59271.0	100.0



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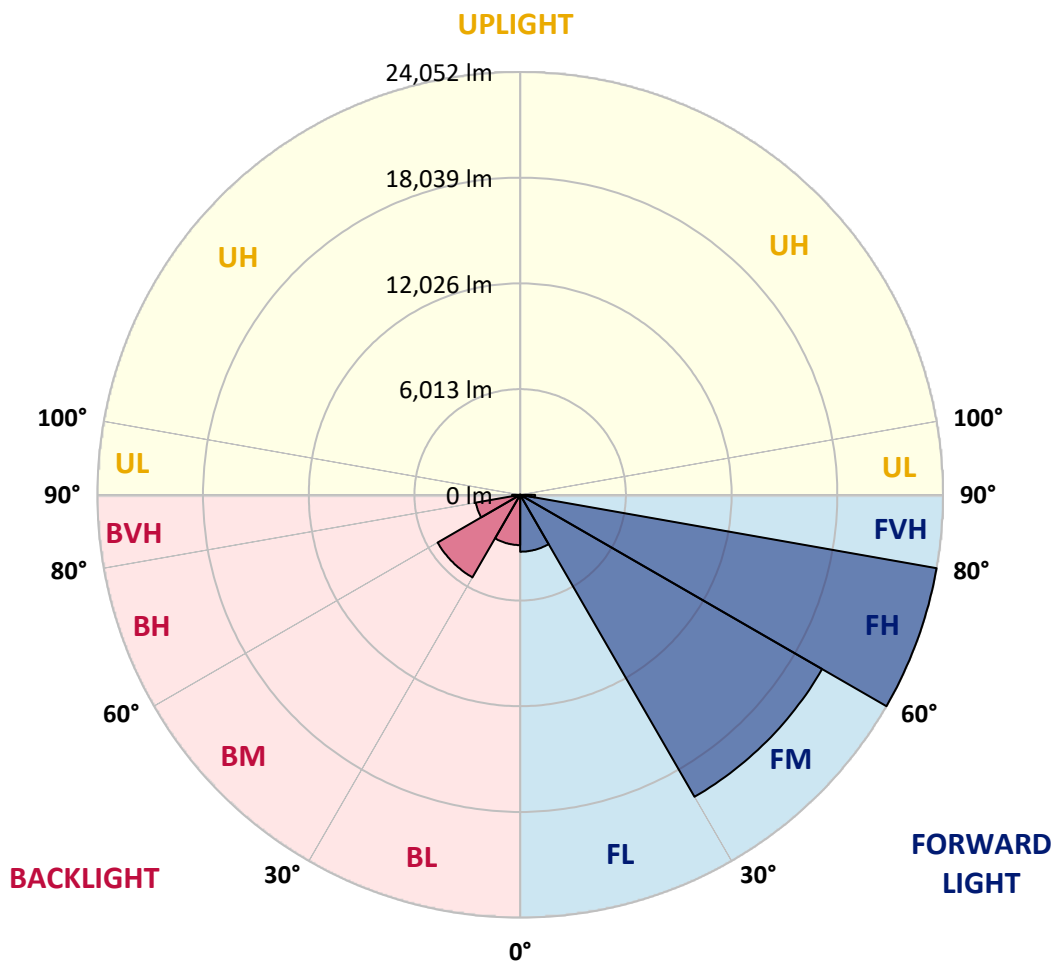
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3238.2	5.5			
FM	(30°-60°)	19832.5	33.5			
FH	(60°-80°)	24052.2	40.6			G5
FVH	(80°-90°)	843.6	1.4			G5
BL	(0°-30°)	2860.6	4.8	B4/5000		
BM	(30°-60°)	5425.0	9.2	B4/8500		
BH	(60°-80°)	2557.6	4.3	B4/5000		G4/5000
BVH	(80°-90°)	461.5	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°	8945.8	8945.8	8945.8	8945.8	8945.8	8945.8	8945.8	8945.8	8945.8	8945.8	8945.8
2.5°	8592.9	8610.0	8590.1	8615.7	8658.4	8703.9	8735.2	8780.8	8832.0	8903.1	8920.2
5°	8188.7	8214.3	8214.3	8259.9	8342.4	8416.4	8484.7	8558.7	8666.9	8789.3	8837.7
7.5°	7744.7	7758.9	7784.6	7852.9	7972.4	8077.7	8174.5	8294.0	8442.0	8604.3	8689.7
10°	7209.6	7229.5	7269.4	7366.2	7528.4	7673.6	7813.0	7978.1	8166.0	8368.0	8476.2
12.5°	6831.1	6825.4	6842.4	6913.6	7055.9	7232.4	7434.5	7645.1	7875.6	8111.9	8242.8
15°	6703.0	6671.7	6606.2	6589.1	6666.0	6842.4	7075.8	7334.8	7610.9	7895.6	8057.8
17.5°	6782.7	6728.6	6549.3	6418.3	6407.0	6540.7	6788.4	7078.7	7397.5	7744.7	7946.8
20°	7283.6	7155.5	6714.4	6409.8	6304.5	6370.0	6586.3	6893.7	7269.4	7730.5	7989.5
22.5°	8481.9	8294.0	7357.6	6791.2	6435.4	6355.7	6518.0	6845.3	7283.6	7906.9	8237.1
25°	10226.7	9959.1	8462.0	7741.9	7007.5	6583.4	6620.4	6956.3	7485.7	8316.8	8715.3
27.5°	11604.3	11430.6	9905.0	9082.5	8049.3	7198.2	6953.4	7235.2	7898.4	8988.5	9395.5
30°	12424.0	12318.7	11447.7	10602.4	9378.5	8177.3	7591.0	7758.9	8544.5	9919.3	10255.1
32.5°	13374.6	13312.0	12885.1	12108.0	10813.0	9463.9	8601.4	8541.7	9409.8	11037.8	11191.5
35°	14359.4	14339.5	14089.0	13531.2	12352.8	11160.2	9942.0	9537.9	10351.9	12199.1	12102.4
37.5°	15275.9	15241.8	15096.6	14772.2	13963.8	12981.8	11308.2	10559.7	11368.0	13309.2	12879.4
40°	16963.8	16696.2	16198.1	15953.4	15591.9	14516.0	12392.7	11513.2	12421.1	14368.0	13551.1
42.5°	19021.6	18586.2	17658.3	17322.4	17271.2	15725.7	13132.7	12438.2	13482.8	15418.3	14211.4
45°	20641.2	20231.3	19431.5	19007.4	19195.3	16821.5	13875.6	13425.9	14575.8	16519.8	14891.7
47.5°	22368.9	21725.6	20666.8	20794.9	21204.7	17857.5	14632.7	14487.5	15774.0	17752.2	15737.0
50°	22431.5	21939.1	21475.1	22240.8	22878.3	18811.0	15580.5	15600.4	17239.9	19303.4	16861.3
52.5°	21130.7	21025.4	21762.6	22966.6	23885.9	19565.3	16659.2	16750.3	19115.6	21085.2	18096.6
55°	20675.3	20555.8	21406.8	22713.3	24022.5	20188.6	17829.1	17994.1	21384.0	22963.7	19300.6
57.5°	21785.4	21520.7	21577.6	22593.7	23689.5	20871.7	19104.2	19437.2	23848.9	24606.0	20074.8
60°	24887.8	24321.4	23245.5	23219.9	23868.8	21896.4	20578.6	20985.6	26410.6	25391.6	19773.1
62.5°	29239.8	28673.4	26658.2	25346.1	25249.3	23587.1	22388.8	22496.9	27890.6	24327.1	17931.5
65°	33950.3	33443.7	31192.3	29339.4	28445.6	26387.8	24492.2	23171.5	27406.8	21398.3	14709.5
67.5°	39668.5	39124.9	37189.4	35478.8	34619.2	30907.7	25969.4	22525.4	24335.6	16576.7	10573.9
70°	43667.5	43112.5	42349.7	43735.8	45839.2	37428.5	26160.1	19898.3	18176.3	11017.9	6364.3
72.5°	38450.3	38191.3	39583.1	45420.8	54181.6	41384.8	23646.8	14487.5	10556.8	5849.1	3683.1
73°	35228.3	35171.4	37545.2	44239.6	54241.4	40775.7	22545.3	13465.7	9054.0	5174.5	3367.1
75°	15907.8	16366.1	21569.1	33790.9	47125.7	33600.2	15868.0	7724.8	5114.8	3574.9	2541.7
77.5°	3822.5	3981.9	6748.5	16047.3	29760.6	20023.5	7189.7	3819.7	3270.4	2524.6	1855.8
80°	1628.1	1682.1	2598.6	5928.8	14012.2	8063.5	3313.1	2558.8	2262.8	1761.8	1300.7
82.5°	905.1	962.0	1474.4	2689.7	5655.5	2749.5	2020.9	1781.8	1488.6	1061.7	845.3
85°	512.3	543.6	862.4	1502.8	2396.6	1104.4	1209.7	1184.0	839.7	546.5	415.6
87.5°	241.9	261.9	415.6	697.3	939.3	432.6	614.8	677.4	526.6	333.0	216.3
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°	8945.8	8945.8	8945.8	8945.8	8945.8	8945.8	8945.8	8945.8	8945.8	8945.8
2.5°	8940.1	8991.4	9051.1	9082.5	9110.9	9145.1	9179.2	9179.2	9184.9	9187.8
5°	8877.5	8982.8	9076.8	9116.6	9125.2	9125.2	9116.6	9071.1	9031.2	9048.3
7.5°	8746.6	8900.3	8980.0	8965.8	8857.6	8732.4	8627.1	8499.0	8433.5	8422.1
10°	8558.7	8735.2	8749.4	8607.1	8339.6	8072.0	7850.0	7633.7	7531.2	7505.6
12.5°	8351.0	8513.2	8422.1	8129.0	7699.2	7309.2	7027.4	6808.3	6711.5	6685.9
15°	8183.0	8294.0	8063.5	7602.4	7061.6	6648.9	6415.5	6253.3	6185.0	6165.0
17.5°	8094.8	8117.6	7696.3	7073.0	6498.0	6153.6	6008.5	5931.6	5906.0	5891.8
20°	8137.5	7978.1	7346.2	6580.6	6036.9	5795.0	5760.9	5740.9	5735.2	5726.7
22.5°	8351.0	7935.4	7024.6	6113.8	5632.8	5527.5	5555.9	5553.1	5547.4	5541.7
25°	8732.4	7972.4	6711.5	5669.8	5294.1	5271.3	5322.5	5322.5	5299.8	5299.8
27.5°	9236.2	8049.3	6361.4	5248.5	4986.7	4989.5	5029.4	5018.0	4992.4	4975.3
30°	9850.9	8097.6	5951.6	4870.0	4699.2	4687.8	4699.2	4650.8	4574.0	4568.3
32.5°	10480.0	8037.9	5476.2	4534.1	4394.6	4369.0	4360.5	4292.2	4203.9	4178.3
35°	11049.2	7818.7	4992.4	4266.6	4104.3	4047.4	4087.2	4064.5	3984.8	3964.9
37.5°	11464.8	7411.7	4556.9	4030.3	3896.5	3882.3	3907.9	3916.5	3822.5	3802.6
40°	11743.7	6859.5	4184.0	3831.1	3856.7	3802.6	3717.2	3657.5	3629.0	3620.5
42.5°	11968.6	6284.6	3870.9	3737.2	3865.2	3708.7	3523.7	3426.9	3478.1	3500.9
45°	12227.6	5723.9	3609.1	3620.5	3822.5	3600.5	3389.9	3296.0	3315.9	3321.6
47.5°	12583.4	5040.7	3327.3	3432.6	3680.2	3526.5	3307.4	3173.6	3079.7	3037.0
50°	13075.8	4232.4	3034.1	3222.0	3540.8	3472.5	3179.3	3037.0	2863.4	2823.5
52.5°	13417.3	3478.1	2792.2	3045.5	3415.5	3364.3	3076.8	2891.8	2709.7	2675.5
55°	13232.3	2889.0	2581.6	2849.1	3250.4	3230.5	2991.4	2743.8	2601.5	2573.0
57.5°	12307.3	2516.1	2419.3	2664.1	3048.4	3116.7	2877.6	2618.6	2516.1	2496.2
60°	10542.6	2282.7	2316.9	2538.9	2883.3	3002.8	2763.7	2550.3	2481.9	2467.7
62.5°	8180.2	2126.2	2240.0	2447.8	2755.2	2923.1	2701.1	2541.7	2516.1	2499.0
65°	5860.5	2000.9	2157.5	2356.7	2638.5	2849.1	2678.3	2530.3	2536.0	2521.8
67.5°	3981.9	1889.9	2057.9	2254.2	2524.6	2783.7	2647.0	2490.5	2561.6	2544.6
70°	2786.5	1781.8	1941.2	2123.3	2382.3	2692.6	2590.1	2430.7	2425.0	2356.7
72.5°	2174.6	1639.5	1781.8	1941.2	2200.2	2564.5	2476.3	2296.9	2203.0	2131.9
73°	2074.9	1605.3	1741.9	1901.3	2160.3	2533.2	2444.9	2259.9	2154.6	2089.2
75°	1716.3	1457.3	1582.5	1724.8	1989.5	2385.2	2291.2	2092.0	1958.2	1918.4
77.5°	1349.1	1246.7	1366.2	1494.3	1753.3	2168.9	2063.5	1872.8	1798.8	1764.7
80°	999.0	1033.2	1138.5	1252.4	1519.9	1938.3	1844.4	1653.7	1983.9	1901.3
82.5°	703.0	782.7	879.5	982.0	1275.1	1713.5	1599.6	1403.2	1451.6	1206.8
85°	415.6	512.3	603.4	691.6	919.3	1420.3	1320.7	1118.6	916.5	873.8
87.5°	241.9	284.6	310.2	401.3	631.9	1070.2	930.7	828.3	475.3	321.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)