

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: P191358

Luminaire Tested: **GLEON-AF-10-LED-E1-T2-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191358  
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-10-LED-E1-T2-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38967.3 lumens  
Efficiency: N/A  
Efficacy: 120.6 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G5

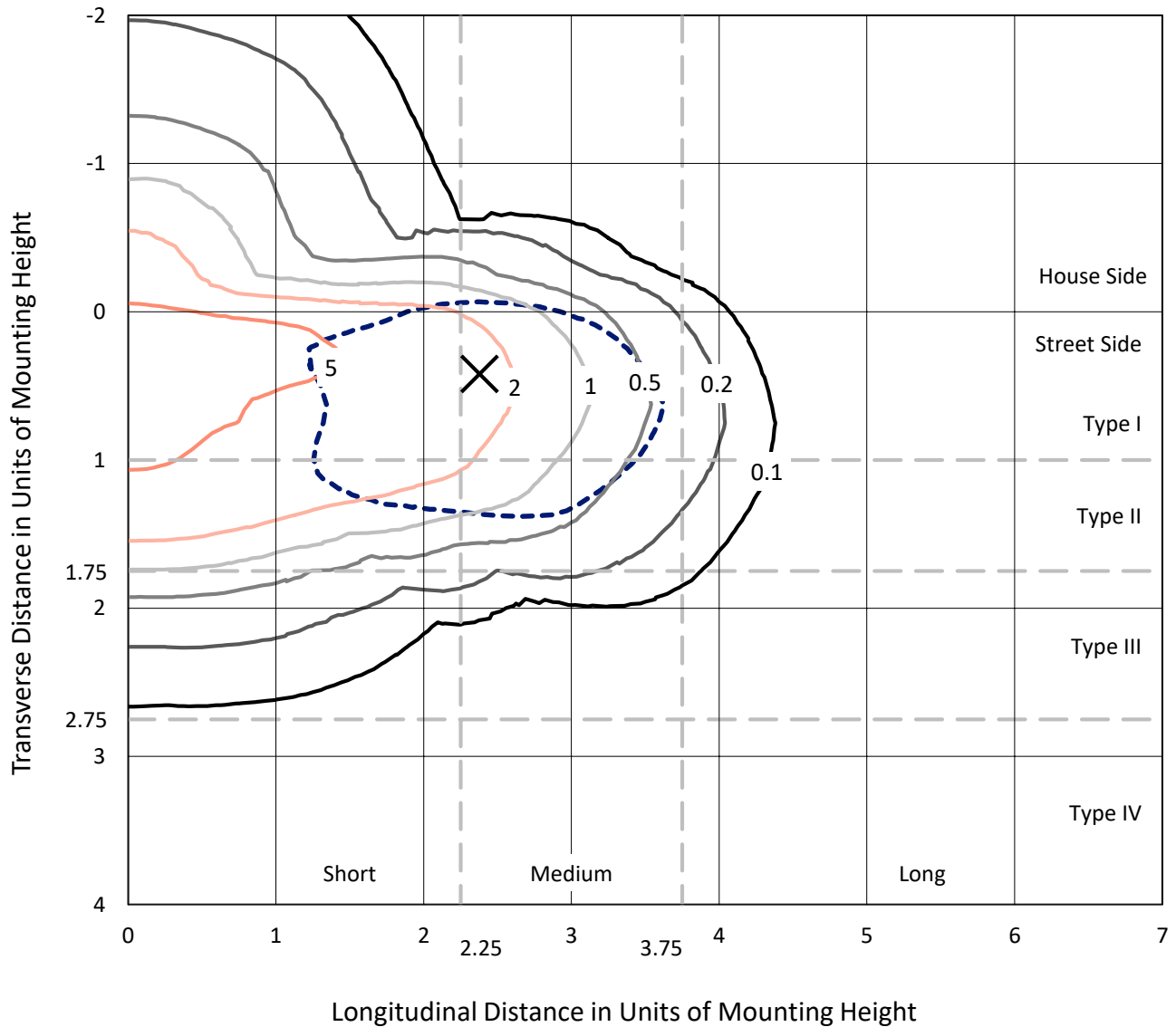
Input Watts (W): 323  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

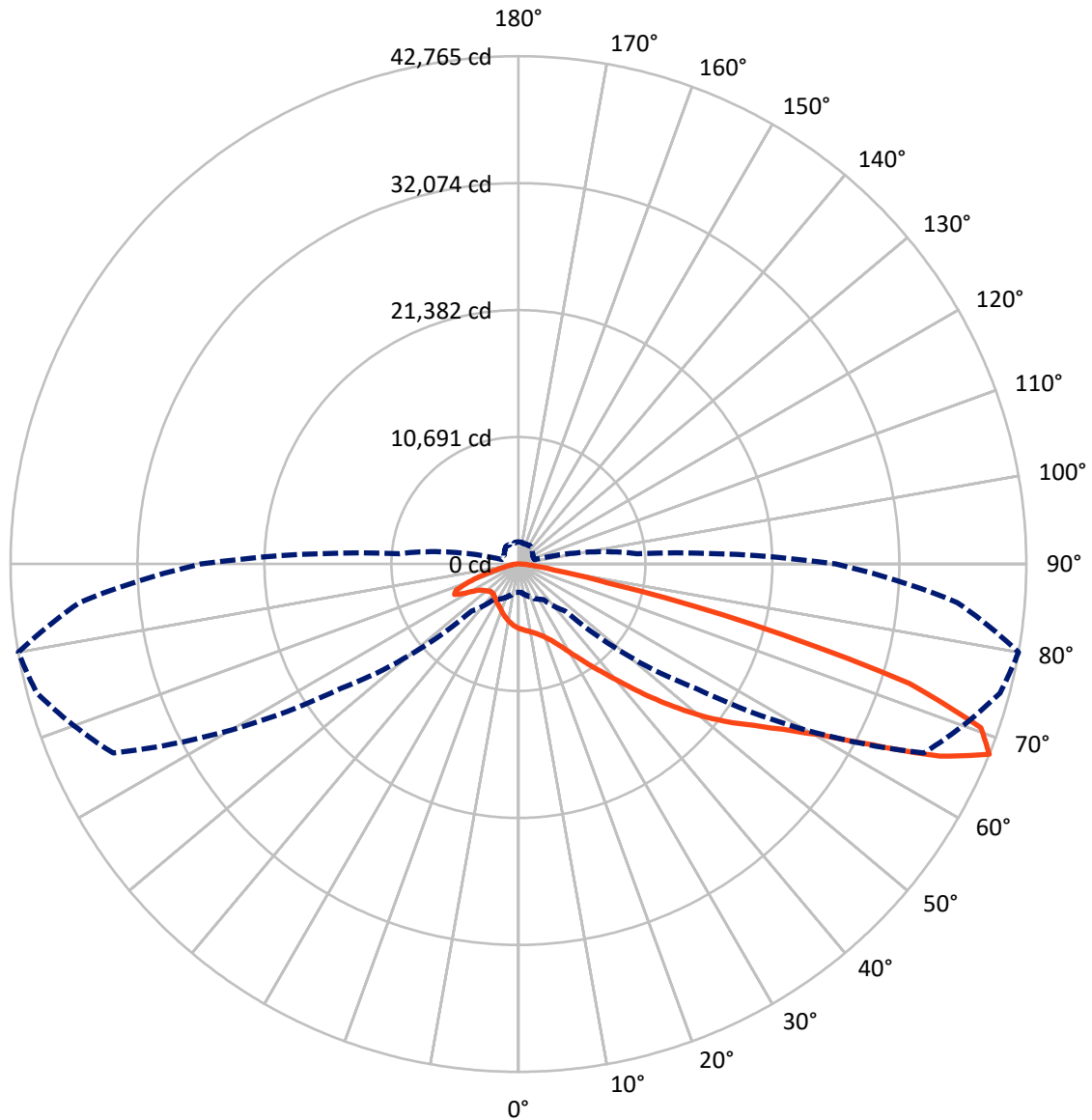
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.3 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
<b>House Side</b>	Lumens	7176.3	0.0	7176.3
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	31791.0	0.0	31791.0
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	38967.3	0.0	38967.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	499.4	1.3
10°-20°	1438.6	3.7
20°-30°	2381.2	6.1
30°-40°	3895.0	10.0
40°-50°	6288.9	16.1
50°-60°	9079.3	23.3
60°-70°	10019.6	25.7
70°-80°	4618.4	11.9
80°-90°	747.0	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°	38967.3	100.0
0°-180°	38967.3	100.0



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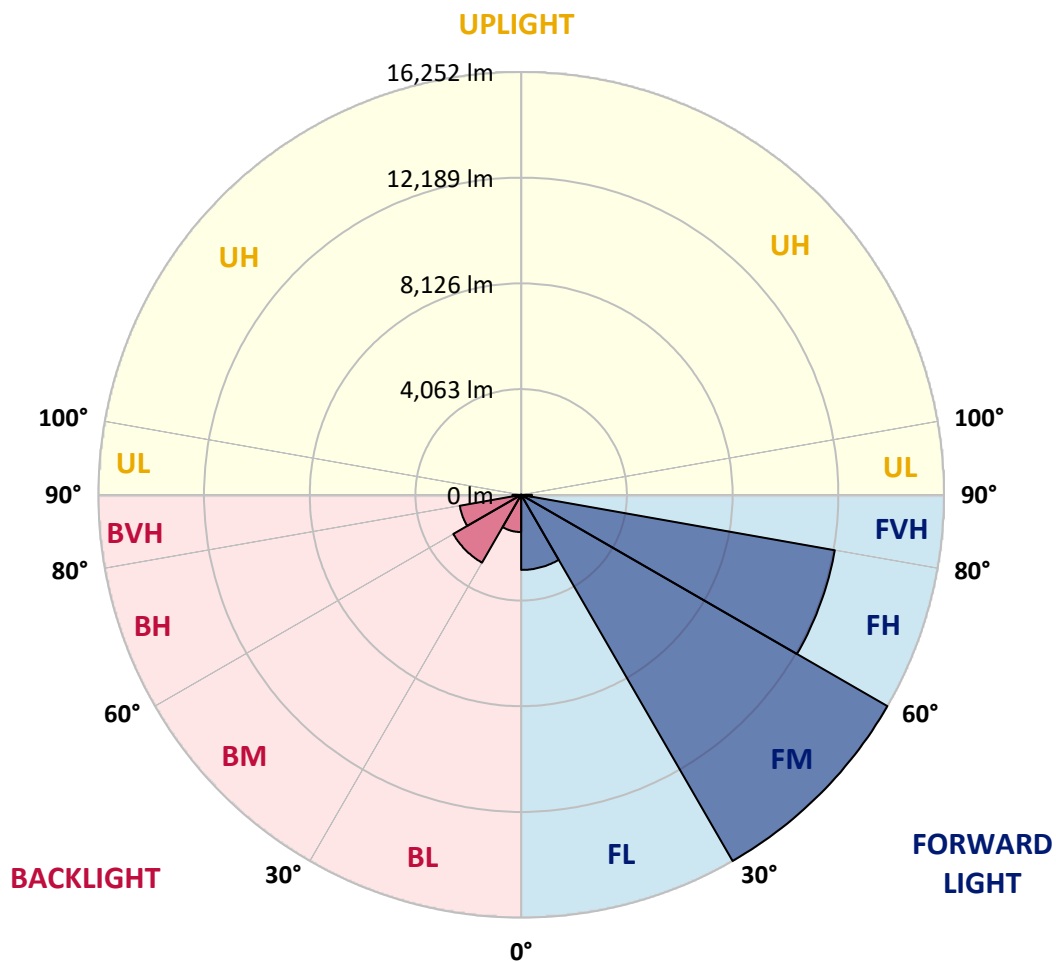
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2887.4	7.4			
FM (30°-60°)	16252.2	41.7			
FH (60°-80°)	12240.6	31.4			G5
FVH (80°-90°)	410.7	1.1			G3/500
BL (0°-30°)	1431.8	3.7	B3/2500		
BM (30°-60°)	3010.9	7.7	B3/5000		
BH (60°-80°)	2397.3	6.2	B3/2500		G3/2500
BVH (80°-90°)	336.3	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-G5**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	5413.7	5413.7	5413.7	5413.7	5413.7	5413.7	5413.7	5413.7	5413.7	5413.7	5413.7
2.5°	5922.1	5887.5	5893.3	5883.7	5855.0	5805.0	5751.3	5653.4	5551.9	5498.1	5455.9
5°	6417.0	6407.5	6394.0	6363.3	6290.4	6186.8	6058.2	5885.6	5699.6	5601.7	5507.7
7.5°	6787.3	6781.4	6764.3	6745.0	6674.0	6549.3	6355.6	6110.1	5839.6	5705.3	5559.5
10°	6818.0	6827.6	6841.0	6892.7	6902.4	6835.3	6637.6	6340.2	5985.4	5812.7	5626.6
12.5°	6557.0	6578.2	6629.9	6762.3	6902.4	6984.8	6883.1	6582.0	6156.1	5947.0	5711.0
15°	6211.8	6223.2	6286.5	6468.8	6720.1	6975.3	7071.1	6848.7	6376.7	6119.7	5837.7
17.5°	6064.1	6069.8	6113.9	6234.8	6468.8	6833.3	7176.7	7138.4	6647.2	6334.5	5993.1
20°	5989.2	6002.7	6065.9	6184.9	6332.6	6651.0	7192.1	7451.0	6969.5	6603.0	6188.8
22.5°	6202.2	6196.4	6219.4	6278.9	6403.6	6595.4	7180.5	7773.3	7380.1	6948.4	6443.9
25°	6699.0	6720.1	6679.9	6612.7	6653.0	6787.3	7241.9	8122.4	7894.1	7391.5	6777.7
27.5°	7406.9	7385.8	7326.3	7169.0	7086.5	7144.1	7445.2	8498.5	8532.9	7974.7	7218.9
30°	8112.8	8095.6	8038.0	7846.2	7677.3	7629.4	7840.4	8930.1	9294.6	8674.9	7759.9
32.5°	8845.7	8826.5	8772.8	8580.9	8377.6	8266.4	8402.5	9428.8	10192.4	9511.4	8396.8
35°	9749.2	9712.8	9599.6	9333.0	9133.4	9047.1	9110.4	10056.2	11228.3	10501.2	9169.9
37.5°	10599.1	10654.7	10539.6	10171.3	9912.3	9881.6	9952.6	10821.6	12344.8	11608.1	10058.1
40°	11452.8	11462.4	11358.7	11057.6	10790.9	10741.1	10919.5	11750.1	13662.7	12931.8	11138.2
42.5°	12335.3	12354.4	12179.9	11901.6	11706.0	11715.5	11918.9	12837.8	15174.5	14491.5	12381.3
45°	13380.7	13409.6	13217.6	12853.2	12674.8	13033.5	12949.1	14057.9	16831.9	16264.1	13808.5
47.5°	14474.2	14518.3	14372.6	14031.1	13808.5	14301.6	13979.2	15410.4	18616.1	18165.2	15375.9
50°	15070.8	15134.1	15276.1	15251.2	15203.2	15120.7	15128.4	16860.7	20455.7	20145.0	16987.3
52.5°	14750.4	14748.6	15266.5	15895.7	16567.2	16617.0	16528.8	18389.7	22174.6	22080.6	18504.8
55°	13284.9	13384.6	14169.2	15387.3	17221.4	18366.7	18627.5	20141.2	23862.8	23972.1	20045.2
57.5°	10844.6	10927.2	11986.1	13683.8	16338.9	19406.4	21612.5	22686.8	25750.5	26260.8	22095.9
60°	7355.1	7454.9	8577.1	10616.4	13963.9	18827.0	24453.6	27229.6	28010.3	29171.0	24973.6
62.5°	4322.2	4412.3	5327.3	6697.1	9831.7	16135.5	25700.6	33692.6	31599.7	33562.2	29362.8
65°	2975.5	3036.8	3481.9	4168.6	5649.7	10867.6	24154.4	38154.8	37122.7	39002.8	34452.3
67.5°	2394.1	2386.4	2739.5	3207.6	3637.3	5603.6	18265.0	37650.2	41980.1	42764.7	37093.9
70°	1972.1	1964.5	2204.3	2591.7	2906.3	3155.7	9948.7	31772.3	40990.2	41308.6	34661.4
72.5°	1649.8	1657.5	1810.9	2098.7	2384.6	2376.9	4372.0	22351.2	32246.2	34448.5	27630.5
75°	1392.7	1396.6	1498.2	1701.6	1935.6	1914.6	2371.1	12108.9	18744.6	20277.3	15316.4
77.5°	1185.6	1189.4	1254.6	1367.8	1534.7	1527.1	1730.4	5231.5	7819.3	7723.4	5239.1
80°	1057.0	1057.0	1087.7	1108.8	1200.9	1166.4	1283.4	2513.1	3305.4	3052.2	2091.0
82.5°	828.7	832.6	1020.6	1012.9	945.7	901.6	901.6	1481.0	1751.5	1619.1	1224.0
85°	466.2	464.2	658.0	794.2	832.6	634.9	629.2	828.7	953.4	840.3	592.8
87.5°	199.5	203.4	305.0	353.0	471.9	395.2	389.4	427.8	485.4	420.1	274.4
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°	5413.7	5413.7	5413.7	5413.7	5413.7	5413.7	5413.7	5413.7	5413.7	5413.7	5413.7
2.5°	5415.6	5365.7	5256.3	5120.2	4997.4	4916.8	4843.9	4738.4	4744.1	4671.3	4617.6
5°	5411.8	5308.2	5054.9	4753.8	4464.1	4255.0	4097.6	3955.8	3921.2	3854.1	3813.8
7.5°	5415.6	5246.8	4820.9	4339.4	3980.6	3715.9	3581.7	3506.8	3489.6	3466.5	3468.4
10°	5429.0	5191.2	4563.8	3951.9	3575.8	3401.3	3368.7	3391.7	3418.6	3426.3	3428.1
12.5°	5459.7	5141.2	4281.9	3606.5	3322.6	3268.9	3324.6	3403.3	3455.0	3480.0	3478.0
15°	5528.7	5102.9	4011.3	3336.0	3182.6	3211.3	3315.0	3426.3	3501.0	3535.6	3537.5
17.5°	5603.6	5047.2	3733.2	3128.9	3079.0	3151.9	3280.4	3410.9	3503.0	3541.4	3549.0
20°	5701.4	4978.2	3441.6	2973.5	2981.2	3063.6	3184.5	3315.0	3416.7	3449.3	3464.6
22.5°	5830.0	4903.4	3186.4	2846.9	2869.9	2933.2	3027.2	3140.4	3228.6	3244.0	3257.4
25°	6002.7	4822.8	2983.1	2731.8	2741.4	2777.8	2841.1	2908.2	2969.6	2952.4	2965.8
27.5°	6234.8	4753.8	2831.5	2626.2	2609.0	2616.7	2649.3	2670.4	2703.0	2655.1	2660.8
30°	6507.2	4679.0	2714.5	2534.2	2486.2	2472.8	2480.5	2492.0	2517.0	2451.7	2442.1
32.5°	6823.7	4588.8	2605.1	2453.6	2386.4	2359.6	2363.4	2394.1	2490.1	2449.8	2428.7
35°	7192.1	4487.1	2490.1	2365.4	2319.3	2281.0	2277.1	2373.0	2658.9	2633.9	2614.8
37.5°	7623.6	4385.4	2375.0	2265.6	2269.4	2227.3	2213.8	2323.1	2691.5	2593.7	2580.2
40°	8172.4	4331.7	2277.1	2160.1	2208.0	2202.3	2175.4	2231.1	2476.7	2298.3	2275.2
42.5°	8851.4	4339.4	2204.3	2046.9	2135.2	2196.6	2154.3	2156.3	2244.6	2110.2	2089.2
45°	9689.8	4429.6	2152.4	1956.8	2052.7	2190.8	2146.7	2116.0	2123.6	2052.7	2041.2
47.5°	10668.1	4615.7	2116.0	1881.9	1974.0	2169.7	2144.7	2104.5	2087.2	2048.9	2039.3
50°	11755.9	4886.1	2089.2	1810.9	1903.0	2135.2	2146.7	2093.0	2073.7	2058.4	2052.7
52.5°	12824.4	5195.0	2048.9	1749.6	1847.4	2093.0	2152.4	2081.5	2060.3	2048.9	2043.0
55°	14015.8	5580.6	1987.5	1697.8	1801.3	2039.3	2152.4	2064.2	2041.2	2043.0	2041.2
57.5°	15625.3	6204.1	1914.6	1653.6	1745.8	1974.0	2116.0	2045.0	2016.2	2018.2	2020.0
60°	18140.3	7303.3	1826.3	1609.5	1676.7	1897.3	2066.1	2002.8	1974.0	1981.7	1983.6
62.5°	21838.9	8916.7	1711.2	1544.3	1603.8	1814.8	1997.0	1949.1	1920.3	1939.5	1939.5
65°	25683.3	10340.1	1569.2	1461.8	1527.1	1724.6	1910.7	1881.9	1853.2	1897.3	1895.3
67.5°	26717.3	10021.6	1427.3	1371.7	1450.3	1624.9	1807.1	1791.8	1776.5	1853.2	1849.3
70°	23734.3	8045.7	1296.8	1279.6	1365.8	1517.4	1695.8	1695.8	1686.2	1743.8	1730.4
72.5°	18082.7	5705.3	1172.1	1181.7	1270.0	1400.4	1575.0	1588.4	1573.1	1601.8	1590.4
75°	9680.2	3265.1	1047.4	1074.3	1151.0	1281.5	1440.7	1454.1	1444.5	1442.7	1448.4
77.5°	3217.2	1596.1	917.0	959.2	1026.3	1158.7	1300.7	1321.8	1298.7	1295.0	1293.0
80°	1433.1	1003.3	773.1	828.7	888.2	1018.7	1153.0	1170.3	1145.3	1179.8	1135.7
82.5°	920.9	659.9	619.6	681.0	738.6	878.6	1005.3	1009.0	986.0	1145.3	976.5
85°	447.0	408.6	466.2	521.8	571.7	690.6	832.6	834.5	776.9	707.9	682.9
87.5°	222.5	237.8	310.8	360.7	385.6	473.8	606.2	594.7	569.8	517.9	477.7
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)