

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: P191353

Luminaire Tested: **GLEON-AF-05-LED-E1-T2-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191353  
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-05-LED-E1-T2-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 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: 19676.5 lumens  
Efficiency: N/A  
Efficacy: 121.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G3

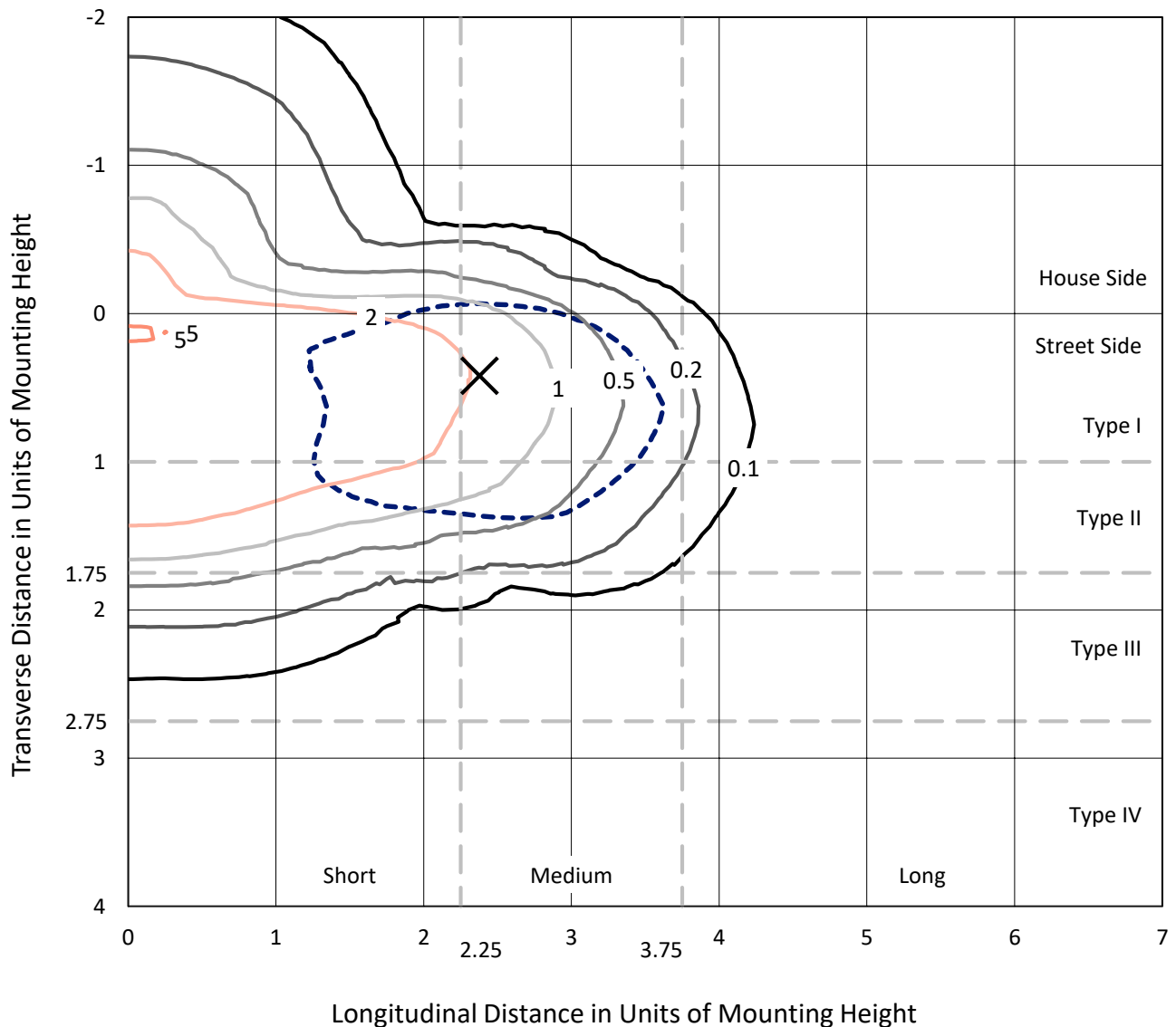
Input Watts (W): 162  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

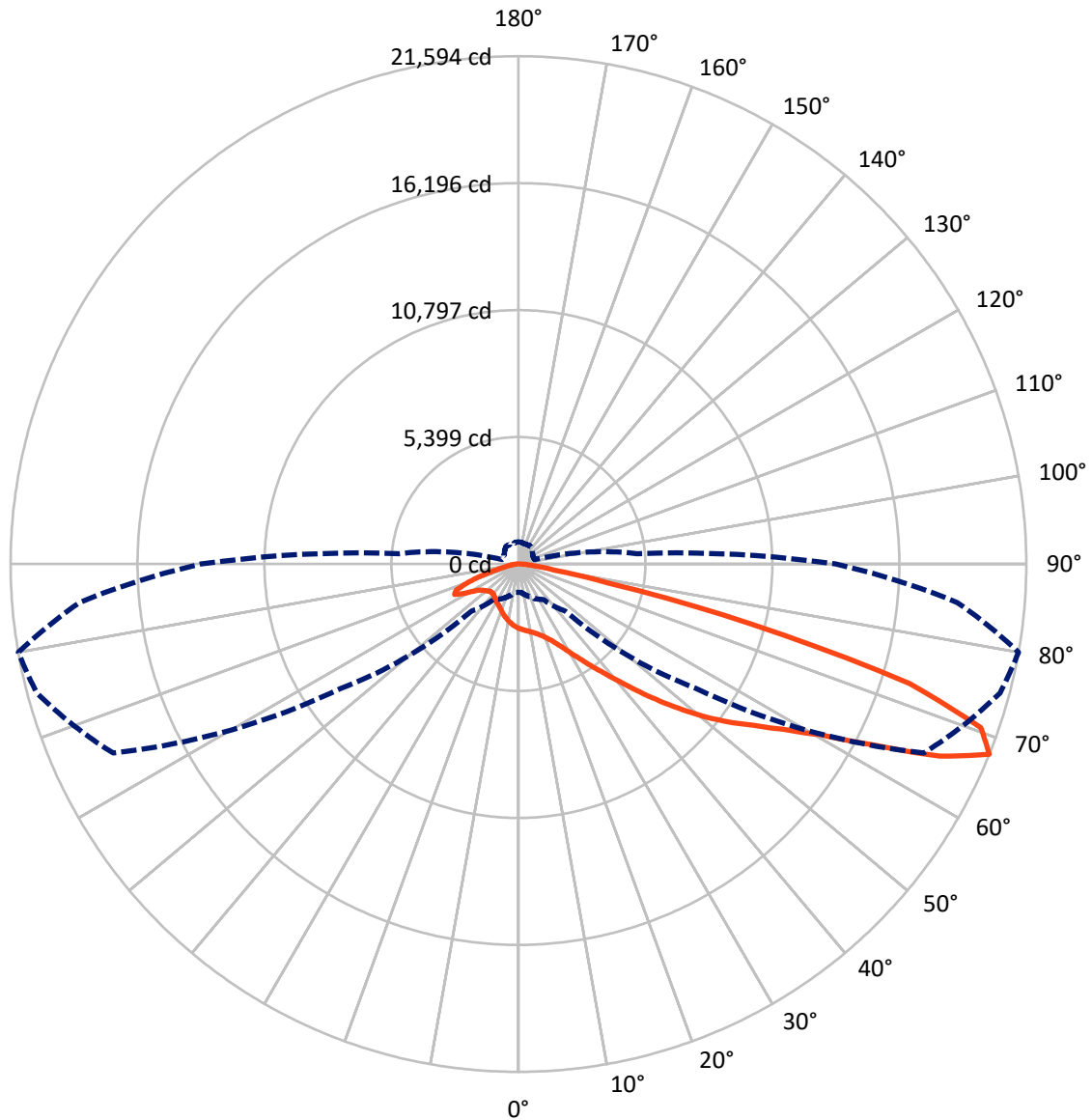
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	3623.7	0.0	3623.7
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	16052.8	0.0	16052.8
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	19676.5	0.0	19676.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.2	1.3
10°-20°	726.4	3.7
20°-30°	1202.4	6.1
30°-40°	1966.8	10.0
40°-50°	3175.6	16.1
50°-60°	4584.6	23.3
60°-70°	5059.4	25.7
70°-80°	2332.1	11.9
80°-90°	377.2	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°	19676.5	100.0
0°-180°	19676.5	100.0



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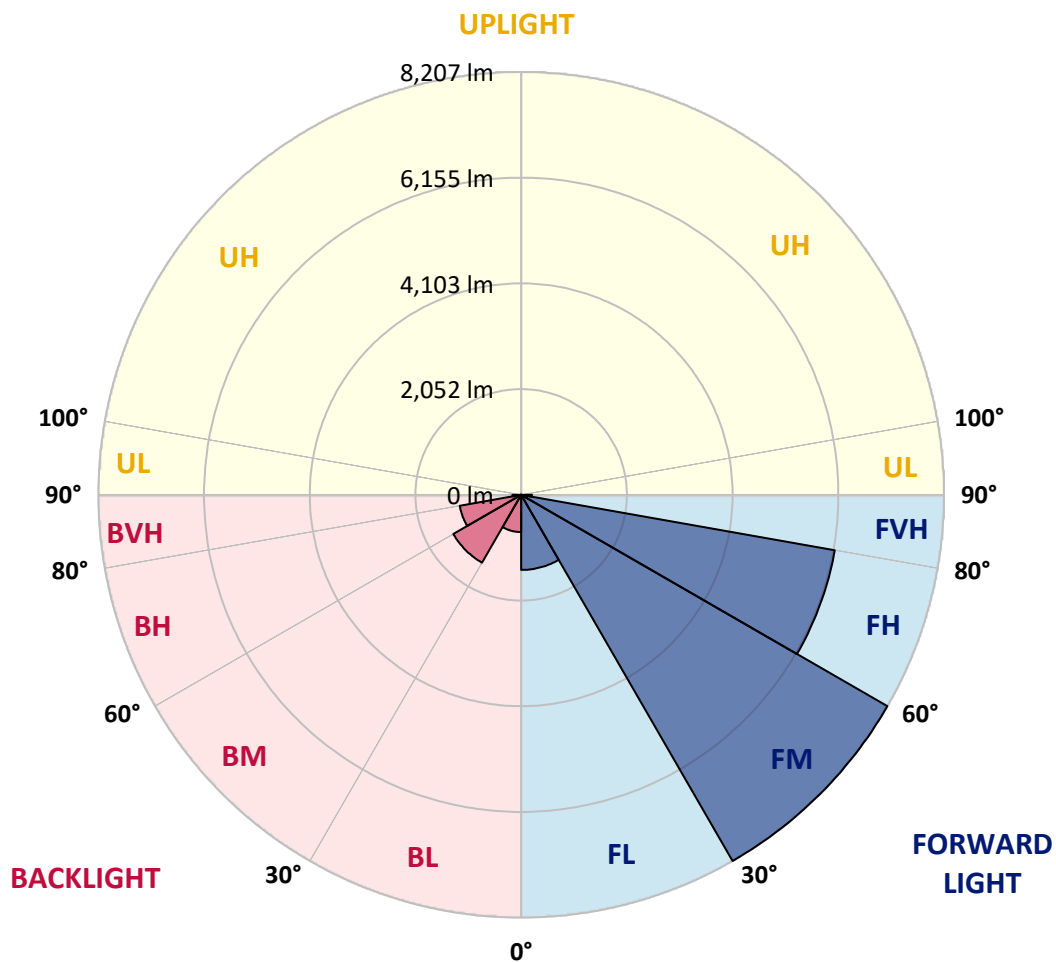
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1458.0	7.4			
FM (30°-60°)	8206.6	41.7			
FH (60°-80°)	6180.9	31.4			G3/7500
FVH (80°-90°)	207.4	1.1			G2/225
BL (0°-30°)	723.0	3.7	B2/1000		
BM (30°-60°)	1520.3	7.7	B2/2500		
BH (60°-80°)	1210.5	6.2	B3/2500		G3/2500
BVH (80°-90°)	169.8	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	2733.6	2733.6	2733.6	2733.6	2733.6	2733.6	2733.6	2733.6	2733.6	2733.6	2733.6
2.5°	2990.3	2972.9	2975.8	2971.0	2956.4	2931.3	2904.2	2854.7	2803.4	2776.3	2754.9
5°	3240.3	3235.4	3228.6	3213.1	3176.4	3124.0	3059.1	2972.0	2878.0	2828.6	2781.1
7.5°	3427.2	3424.3	3415.6	3405.9	3370.0	3307.1	3209.3	3085.2	2948.7	2880.8	2807.3
10°	3442.7	3447.5	3454.3	3480.5	3485.3	3451.4	3351.7	3201.5	3022.3	2935.2	2841.1
12.5°	3311.0	3321.6	3347.8	3414.6	3485.3	3527.0	3475.7	3323.6	3108.5	3003.0	2883.8
15°	3136.6	3142.4	3174.4	3266.4	3393.3	3522.1	3570.6	3458.2	3219.9	3090.1	2947.7
17.5°	3062.0	3065.0	3087.2	3148.2	3266.4	3450.4	3623.9	3604.5	3356.5	3198.6	3026.2
20°	3024.3	3031.0	3063.0	3123.1	3197.6	3358.4	3631.6	3762.4	3519.3	3334.2	3125.0
22.5°	3131.8	3128.9	3140.5	3170.5	3233.4	3330.3	3625.7	3925.2	3726.5	3508.6	3253.8
25°	3382.7	3393.3	3373.0	3339.0	3359.4	3427.2	3656.7	4101.4	3986.1	3732.3	3422.4
27.5°	3740.1	3729.5	3699.4	3620.0	3578.3	3607.4	3759.4	4291.3	4308.7	4026.8	3645.2
30°	4096.6	4087.8	4058.8	3961.9	3876.7	3852.4	3959.0	4509.3	4693.3	4380.4	3918.3
32.5°	4466.6	4456.9	4429.8	4332.9	4230.2	4174.0	4242.9	4761.1	5146.7	4802.8	4239.9
35°	4922.8	4904.4	4847.4	4712.6	4611.9	4568.3	4600.3	5077.8	5669.7	5302.6	4630.3
37.5°	5352.0	5380.1	5322.0	5135.9	5005.2	4989.7	5025.6	5464.4	6233.5	5861.5	5078.8
40°	5783.0	5787.9	5735.6	5583.5	5448.8	5423.7	5513.8	5933.2	6899.0	6529.9	5624.2
42.5°	6228.6	6238.4	6150.2	6009.7	5910.9	5915.7	6018.4	6482.4	7662.3	7317.5	6251.9
45°	6756.6	6771.1	6674.2	6490.2	6400.1	6581.3	6538.6	7098.6	8499.3	8212.6	6972.6
47.5°	7308.8	7331.0	7257.4	7085.0	6972.6	7221.5	7058.8	7781.5	9400.1	9172.5	7764.0
50°	7610.0	7642.0	7713.7	7701.1	7676.8	7635.2	7639.1	8513.8	10329.1	10172.2	8577.7
52.5°	7448.2	7447.3	7708.9	8026.6	8365.6	8390.8	8346.2	9285.8	11197.0	11149.6	9343.9
55°	6708.1	6758.5	7154.7	7769.8	8695.9	9274.2	9405.9	10170.3	12049.4	12104.7	10121.8
57.5°	5476.0	5517.6	6052.4	6909.6	8250.3	9799.3	10913.2	11455.7	13002.6	13260.3	11157.3
60°	3713.9	3764.4	4331.0	5360.7	7051.1	9506.7	12347.8	13749.5	14143.8	14729.9	12610.3
62.5°	2182.5	2228.0	2690.1	3381.7	4964.5	8147.6	12977.5	17013.0	15956.2	16947.1	14826.8
65°	1502.4	1533.4	1758.1	2104.9	2852.8	5487.6	12196.7	19266.2	18745.1	19694.4	17396.6
67.5°	1208.9	1205.0	1383.2	1619.6	1836.6	2829.5	9222.8	19011.4	21197.8	21594.0	18730.5
70°	995.8	992.0	1113.0	1308.7	1467.5	1593.5	5023.6	16043.3	20697.9	20858.7	17502.2
72.5°	833.1	837.0	914.4	1059.8	1204.1	1200.2	2207.6	11286.1	16282.6	17394.7	13952.0
75°	703.3	705.2	756.6	859.2	977.4	966.8	1197.3	6114.4	9465.1	10239.0	7734.0
77.5°	598.6	600.6	633.5	690.7	775.0	771.1	873.8	2641.6	3948.4	3899.9	2645.5
80°	533.8	533.8	549.2	559.9	606.4	588.9	648.0	1269.0	1669.0	1541.2	1055.9
82.5°	418.5	420.4	515.4	511.5	477.5	455.3	455.3	747.8	884.4	817.5	618.1
85°	235.4	234.5	332.3	401.0	420.4	320.6	317.7	418.5	481.4	424.3	299.3
87.5°	100.8	102.7	154.1	178.2	238.3	199.6	196.6	216.0	245.1	212.2	138.5
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°	2733.6	2733.6	2733.6	2733.6	2733.6	2733.6	2733.6	2733.6	2733.6	2733.6	2733.6
2.5°	2734.6	2709.4	2654.3	2585.4	2523.4	2482.7	2446.0	2392.7	2395.5	2358.7	2331.6
5°	2732.7	2680.3	2552.5	2400.4	2254.2	2148.5	2069.1	1997.4	1980.0	1946.1	1925.7
7.5°	2734.6	2649.3	2434.3	2191.2	2010.0	1876.3	1808.6	1770.7	1762.0	1750.4	1751.4
10°	2741.4	2621.3	2304.5	1995.5	1805.6	1717.4	1701.0	1712.6	1726.2	1730.1	1731.0
12.5°	2756.9	2596.0	2162.1	1821.2	1677.7	1650.6	1678.8	1718.5	1744.6	1757.2	1756.2
15°	2791.7	2576.7	2025.5	1684.6	1607.1	1621.6	1673.9	1730.1	1767.9	1785.3	1786.3
17.5°	2829.5	2548.6	1885.1	1579.9	1554.8	1591.5	1656.5	1722.3	1768.8	1788.2	1792.1
20°	2878.9	2513.7	1737.8	1501.5	1505.4	1547.0	1608.0	1673.9	1725.2	1741.7	1749.5
22.5°	2943.8	2476.0	1609.0	1437.6	1449.1	1481.1	1528.6	1585.8	1630.3	1638.1	1644.8
25°	3031.0	2435.2	1506.3	1379.4	1384.3	1402.7	1434.6	1468.5	1499.5	1490.8	1497.6
27.5°	3148.2	2400.4	1429.8	1326.2	1317.5	1321.2	1337.7	1348.5	1364.9	1340.7	1343.5
30°	3285.8	2362.6	1370.7	1279.6	1255.5	1248.6	1252.5	1258.3	1270.9	1238.0	1233.2
32.5°	3445.6	2317.1	1315.5	1239.0	1205.0	1191.5	1193.4	1208.9	1257.3	1237.1	1226.3
35°	3631.6	2265.7	1257.3	1194.4	1171.2	1151.7	1149.8	1198.3	1342.6	1330.0	1320.3
37.5°	3849.6	2214.4	1199.2	1144.1	1145.9	1124.6	1117.9	1173.1	1359.1	1309.7	1302.9
40°	4126.6	2187.3	1149.8	1090.8	1114.9	1112.0	1098.4	1126.6	1250.6	1160.4	1148.9
42.5°	4469.5	2191.2	1113.0	1033.6	1078.2	1109.2	1087.8	1088.8	1133.3	1065.5	1054.9
45°	4892.9	2236.7	1086.9	988.1	1036.5	1106.2	1083.9	1068.5	1072.4	1036.5	1030.7
47.5°	5386.9	2330.7	1068.5	950.3	996.8	1095.6	1083.0	1062.6	1053.9	1034.5	1029.7
50°	5936.1	2467.3	1054.9	914.4	961.0	1078.2	1083.9	1056.8	1047.2	1039.4	1036.5
52.5°	6475.7	2623.2	1034.5	883.4	932.8	1056.8	1086.9	1051.0	1040.3	1034.5	1031.6
55°	7077.2	2817.9	1003.5	857.3	909.6	1029.7	1086.9	1042.3	1030.7	1031.6	1030.7
57.5°	7889.9	3132.7	966.8	835.0	881.5	996.8	1068.5	1032.7	1018.0	1019.1	1020.0
60°	9159.9	3687.7	922.2	812.7	846.6	958.0	1043.3	1011.3	996.8	1000.7	1001.6
62.5°	11027.5	4502.4	864.1	779.8	809.9	916.4	1008.4	984.2	969.7	979.4	979.4
65°	12968.8	5221.2	792.4	738.2	771.1	870.8	964.8	950.3	935.8	958.0	957.1
67.5°	13490.9	5060.4	720.7	692.6	732.3	820.5	912.5	904.8	897.0	935.8	933.9
70°	11984.6	4062.6	654.8	646.1	689.7	766.2	856.3	856.3	851.5	880.6	873.8
72.5°	9130.9	2880.8	591.9	596.7	641.3	707.2	795.2	802.1	794.3	808.8	803.0
75°	4888.0	1648.7	528.9	542.5	581.2	647.1	727.5	734.3	729.5	728.4	731.3
77.5°	1624.4	806.0	463.0	484.4	518.2	585.1	656.7	667.5	655.8	653.9	652.8
80°	723.6	506.7	390.4	418.5	448.5	514.3	582.2	590.9	578.3	595.8	573.5
82.5°	464.9	333.3	312.9	343.9	373.0	443.7	507.6	509.5	497.9	578.3	493.1
85°	225.7	206.3	235.4	263.5	288.7	348.7	420.4	421.4	392.3	357.4	344.8
87.5°	112.3	120.1	156.9	182.1	194.7	239.3	306.1	300.3	287.7	261.6	241.2
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)