

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: P191371

Luminaire Tested: **GLEON-AF-03-LED-E1-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191371
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-03-LED-E1-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18242.3 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 166
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

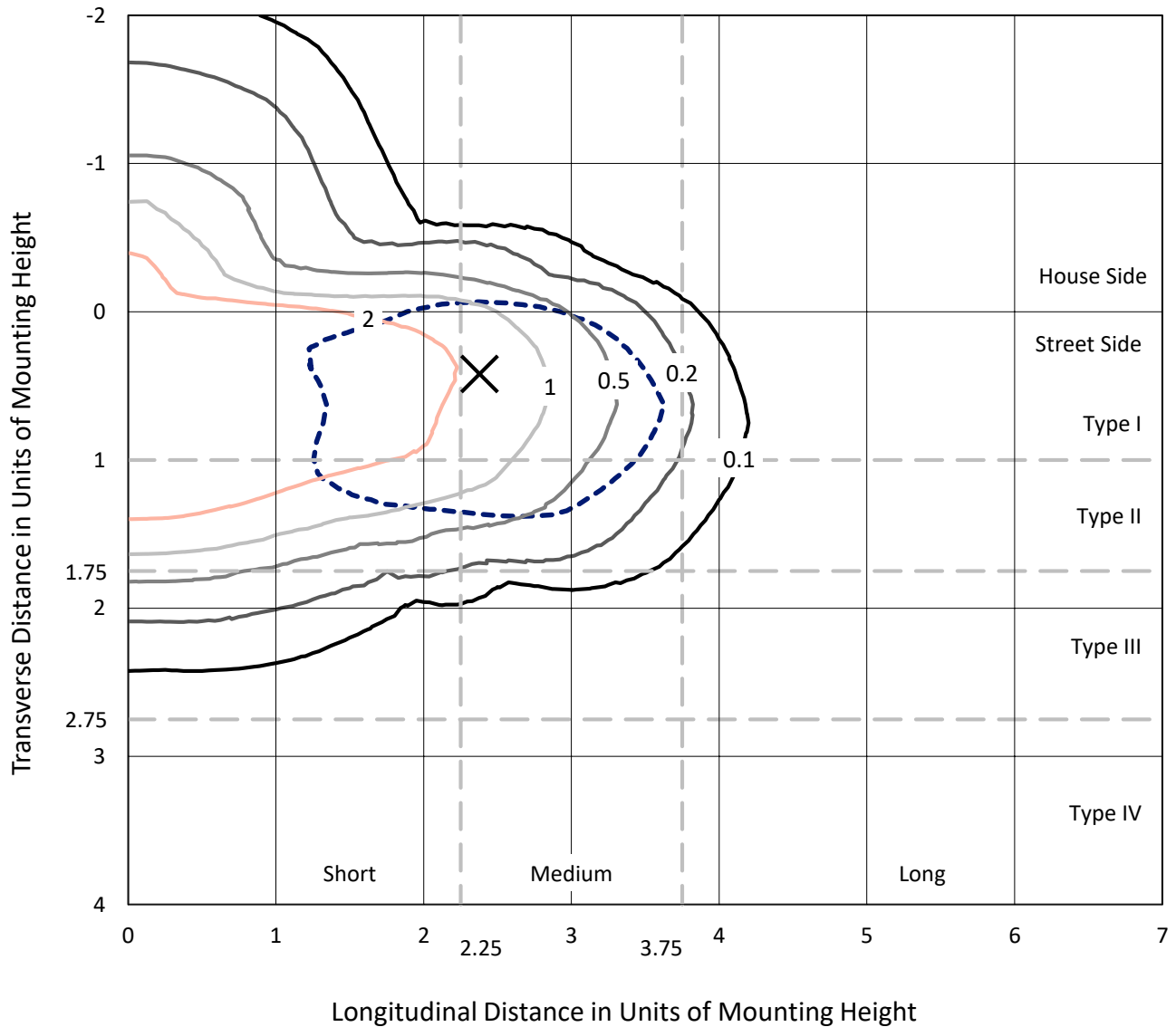


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

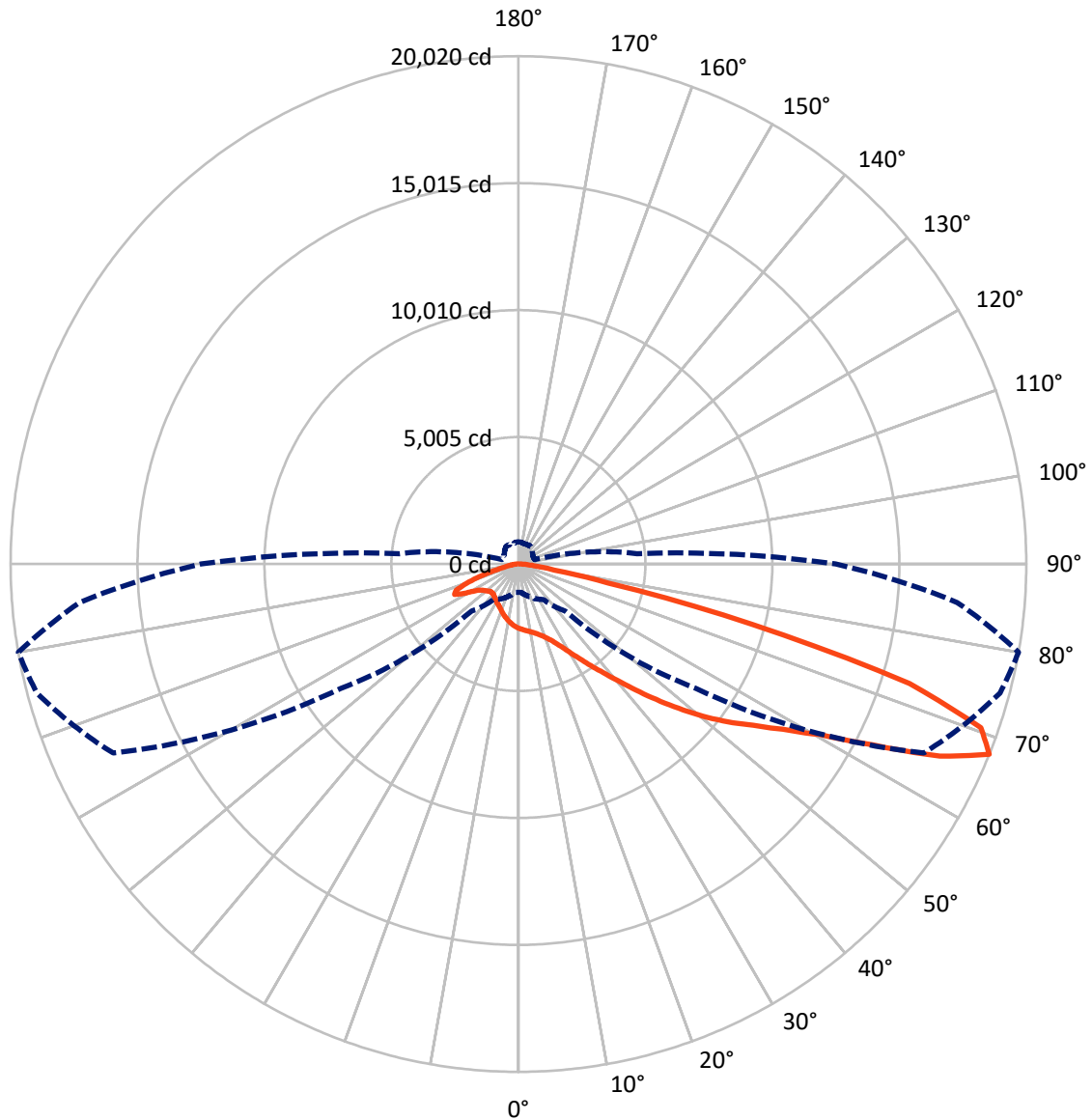


Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Medium - Full Cutoff

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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
House Side	Lumens	3359.5	0.0	3359.5
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	14882.7	0.0	14882.7
	% Fixture	81.6	0.0	81.6
Total	Lumens	18242.3	0.0	18242.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.8	1.3
10°-20°	673.5	3.7
20°-30°	1114.7	6.1
30°-40°	1823.4	10.0
40°-50°	2944.1	16.1
50°-60°	4250.4	23.3
60°-70°	4690.6	25.7
70°-80°	2162.1	11.9
80°-90°	349.7	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°	18242.3	100.0
0°-180°	18242.3	100.0



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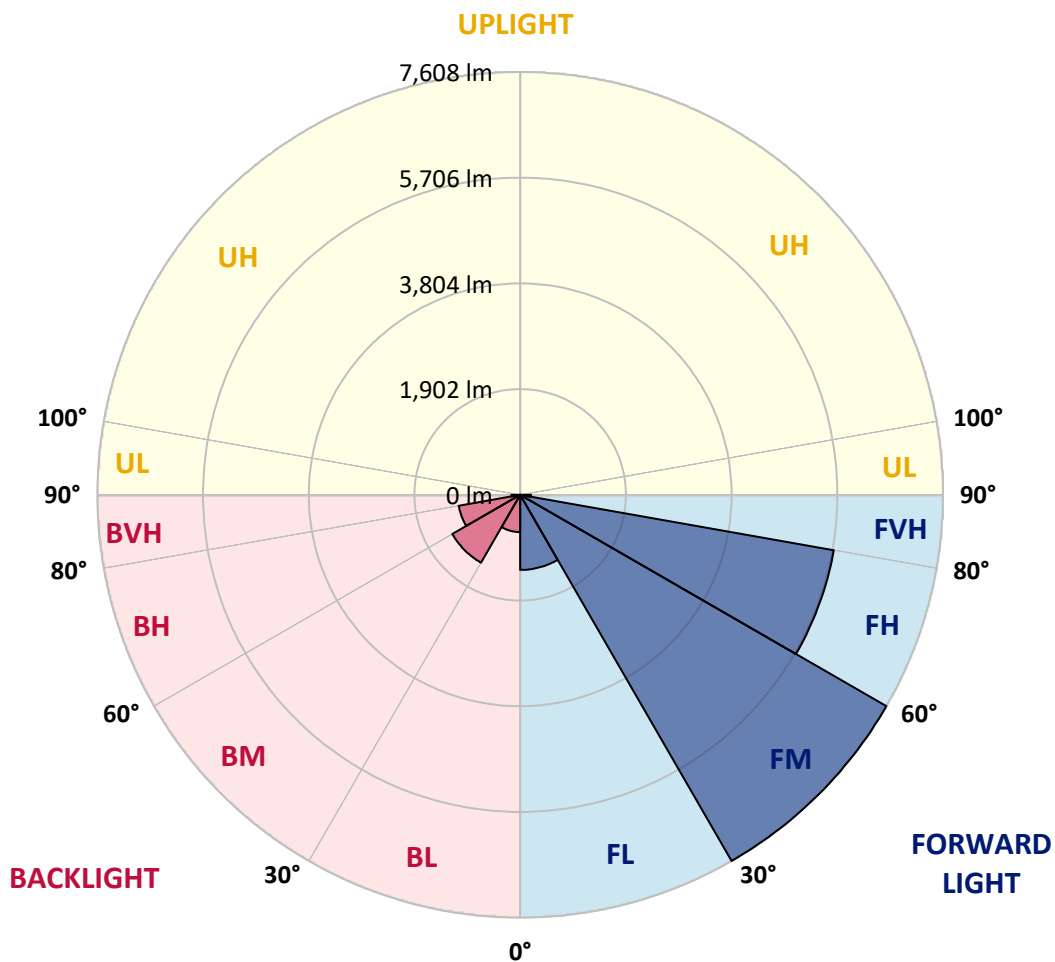
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1351.7	7.4			
FM (30°-60°)	7608.4	41.7			
FH (60°-80°)	5730.4	31.4			G3/7500
FVH (80°-90°)	192.3	1.1			G2/225
BL (0°-30°)	670.3	3.7	B2/1000		
BM (30°-60°)	1409.5	7.7	B2/2500		
BH (60°-80°)	1122.3	6.2	B3/2500		G3/2500
BVH (80°-90°)	157.4	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°	2534.4	2534.4	2534.4	2534.4	2534.4	2534.4	2534.4	2534.4	2534.4	2534.4	2534.4
2.5°	2772.4	2756.2	2758.9	2754.4	2740.9	2717.6	2692.4	2646.7	2599.0	2573.9	2554.1
5°	3004.1	2999.6	2993.3	2978.9	2944.8	2896.3	2836.1	2755.3	2668.2	2622.4	2578.3
7.5°	3177.4	3174.7	3166.6	3157.6	3124.4	3066.1	2975.4	2860.4	2733.7	2670.9	2602.6
10°	3191.8	3196.3	3202.6	3226.8	3231.3	3199.9	3107.3	2968.2	2802.0	2721.2	2634.1
12.5°	3069.7	3079.5	3103.7	3165.7	3231.3	3269.9	3222.3	3081.3	2882.0	2784.1	2673.6
15°	2907.9	2913.4	2943.0	3028.3	3146.0	3265.5	3310.4	3206.1	2985.2	2864.9	2732.8
17.5°	2838.8	2841.6	2862.2	2918.8	3028.3	3199.0	3359.7	3341.8	3111.8	2965.4	2805.6
20°	2803.8	2810.0	2839.7	2895.5	2964.6	3113.7	3366.9	3488.2	3262.7	3091.2	2897.2
22.5°	2903.5	2900.8	2911.6	2939.4	2997.8	3087.6	3361.5	3639.0	3454.9	3252.9	3016.7
25°	3136.1	3146.0	3127.2	3095.7	3114.6	3177.4	3390.3	3802.5	3695.6	3460.3	3172.9
27.5°	3467.5	3457.6	3429.7	3356.1	3317.5	3344.4	3485.5	3978.5	3994.6	3733.4	3379.5
30°	3798.0	3789.9	3762.9	3673.1	3594.1	3571.6	3670.4	4180.6	4351.2	4061.1	3632.7
32.5°	4141.0	4132.1	4106.9	4017.1	3921.9	3869.8	3933.6	4414.0	4771.5	4452.7	3930.9
35°	4564.0	4547.0	4494.0	4369.1	4275.7	4235.3	4265.0	4707.7	5256.4	4916.1	4292.8
37.5°	4961.9	4987.9	4934.1	4761.6	4640.4	4626.0	4659.2	5066.1	5779.2	5434.3	4708.6
40°	5361.6	5366.0	5317.5	5176.5	5051.7	5028.3	5111.9	5500.7	6396.1	6053.9	5214.3
42.5°	5774.7	5783.7	5701.9	5571.7	5480.0	5484.6	5579.8	6009.9	7103.8	6784.1	5796.2
45°	6264.1	6277.5	6187.7	6017.1	5933.6	6101.6	6062.0	6581.2	7879.8	7613.9	6464.4
47.5°	6776.0	6796.7	6728.5	6568.6	6464.4	6695.2	6544.3	7214.3	8714.9	8503.9	7198.1
50°	7055.3	7085.0	7151.4	7139.8	7117.3	7078.7	7082.3	7893.2	9576.3	9430.8	7952.5
52.5°	6905.3	6904.4	7146.9	7441.5	7755.8	7779.1	7737.9	8609.1	10380.9	10336.9	8662.9
55°	6219.2	6265.9	6633.2	7203.5	8062.1	8598.2	8720.3	9428.9	11171.2	11222.4	9384.0
57.5°	5076.8	5115.5	5611.2	6406.0	7648.9	9085.0	10117.8	10620.7	12055.0	12293.8	10344.1
60°	3443.3	3489.9	4015.3	4970.0	6537.2	8813.7	11447.8	12747.4	13112.9	13656.2	11691.2
62.5°	2023.4	2065.5	2494.0	3135.2	4602.7	7553.8	12031.5	15773.0	14793.2	15711.9	13746.0
65°	1393.0	1421.7	1630.0	1951.5	2644.8	5087.6	11307.7	17861.9	17378.8	18258.9	16128.7
67.5°	1120.8	1117.2	1282.5	1501.6	1702.8	2623.3	8550.6	17625.7	19652.7	20020.0	17365.3
70°	923.2	919.6	1031.9	1213.3	1360.6	1477.3	4657.5	14874.0	19189.3	19338.4	16226.6
72.5°	772.3	775.9	847.8	982.5	1116.3	1112.8	2046.7	10463.6	15095.8	16126.8	12935.0
75°	652.0	653.8	701.4	796.6	906.1	896.3	1110.0	5668.7	8775.2	9492.7	7170.3
77.5°	555.1	556.8	587.4	640.4	718.4	714.8	810.1	2449.0	3660.5	3615.7	2452.6
80°	494.8	494.8	509.2	519.0	562.2	546.1	600.8	1176.5	1547.4	1428.9	978.9
82.5°	388.0	389.7	477.8	474.1	442.7	422.1	422.1	693.4	820.0	758.0	573.0
85°	218.2	217.4	308.0	371.8	389.7	297.3	294.6	388.0	446.3	393.3	277.5
87.5°	93.4	95.2	142.8	165.2	221.0	185.1	182.3	200.3	227.2	196.7	128.4
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°	2534.4	2534.4	2534.4	2534.4	2534.4	2534.4	2534.4	2534.4	2534.4	2534.4	2534.4
2.5°	2535.3	2512.0	2460.7	2397.0	2339.5	2301.7	2267.7	2218.3	2220.9	2186.9	2161.7
5°	2533.4	2485.0	2366.4	2225.4	2089.8	1992.0	1918.3	1851.8	1835.7	1804.3	1785.4
7.5°	2535.3	2456.2	2256.8	2031.5	1863.5	1739.6	1676.7	1641.7	1633.7	1622.8	1623.7
10°	2541.5	2430.2	2136.5	1850.0	1674.1	1592.3	1577.0	1587.8	1600.4	1604.0	1604.9
12.5°	2555.9	2406.9	2004.5	1688.4	1555.5	1530.3	1556.4	1593.2	1617.5	1629.2	1628.2
15°	2588.3	2388.9	1877.9	1561.7	1489.9	1503.4	1551.9	1604.0	1639.0	1655.1	1656.1
17.5°	2623.3	2362.8	1747.7	1464.8	1441.4	1475.5	1535.8	1596.8	1639.9	1657.9	1661.5
20°	2669.1	2330.5	1611.1	1392.0	1395.6	1434.3	1490.8	1551.9	1599.5	1614.7	1621.9
22.5°	2729.2	2295.5	1491.7	1332.8	1343.5	1373.2	1417.2	1470.2	1511.5	1518.7	1524.9
25°	2810.0	2257.8	1396.5	1278.9	1283.4	1300.4	1330.0	1361.4	1390.2	1382.1	1388.5
27.5°	2918.8	2225.4	1325.5	1229.5	1221.4	1225.0	1240.2	1250.1	1265.4	1243.0	1245.6
30°	3046.2	2190.4	1270.8	1186.3	1163.9	1157.7	1161.3	1166.6	1178.2	1147.8	1143.2
32.5°	3194.5	2148.2	1219.6	1148.7	1117.2	1104.7	1106.4	1120.8	1165.8	1146.8	1137.0
35°	3366.9	2100.6	1165.8	1107.3	1085.8	1067.9	1066.0	1110.9	1244.7	1233.1	1224.1
37.5°	3569.0	2053.1	1111.8	1060.6	1062.4	1042.7	1036.4	1087.6	1260.0	1214.2	1207.9
40°	3825.8	2027.9	1066.0	1011.3	1033.7	1031.0	1018.4	1044.4	1159.4	1075.9	1065.1
42.5°	4143.8	2031.5	1031.9	958.3	999.5	1028.3	1008.5	1009.4	1050.8	987.9	978.0
45°	4536.2	2073.6	1007.6	916.1	961.0	1025.6	1004.9	990.6	994.2	961.0	955.5
47.5°	4994.3	2160.8	990.6	881.1	924.1	1015.7	1004.0	985.2	977.1	959.1	954.6
50°	5503.5	2287.4	978.0	847.8	890.9	999.5	1004.9	979.8	970.8	963.6	961.0
52.5°	6003.7	2432.0	959.1	819.1	864.8	979.8	1007.6	974.5	964.5	959.1	956.5
55°	6561.4	2612.5	930.4	794.8	843.3	954.6	1007.6	966.4	955.5	956.5	955.5
57.5°	7314.9	2904.4	896.3	774.2	817.2	924.1	990.6	957.4	943.9	944.8	945.7
60°	8492.2	3419.0	855.0	753.5	784.9	888.2	967.2	937.6	924.1	927.7	928.6
62.5°	10223.8	4174.3	801.1	722.9	750.8	849.6	934.9	912.5	899.0	908.0	908.0
65°	12023.5	4840.7	734.6	684.4	714.8	807.4	894.5	881.1	867.6	888.2	887.3
67.5°	12507.6	4691.6	668.2	642.1	678.9	760.7	846.0	838.8	831.7	867.6	865.7
70°	11111.1	3766.5	607.1	599.0	639.4	710.3	793.9	793.9	789.4	816.3	810.1
72.5°	8465.3	2670.9	548.7	553.2	594.5	655.6	737.3	743.6	736.4	749.9	744.5
75°	4531.7	1528.5	490.4	502.9	538.9	600.0	674.4	680.8	676.3	675.4	678.0
77.5°	1506.1	747.2	429.3	449.1	480.5	542.5	608.9	618.8	608.0	606.2	605.3
80°	670.9	469.7	361.9	388.0	415.8	476.9	539.7	547.8	536.1	552.3	531.6
82.5°	431.1	308.9	290.1	318.9	345.8	411.3	470.6	472.4	461.7	536.1	457.2
85°	209.3	191.3	218.2	244.3	267.6	323.4	389.7	390.7	363.8	331.4	319.7
87.5°	104.1	111.4	145.5	168.9	180.6	221.8	283.8	278.4	266.7	242.4	223.6
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)