

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: P200016

Luminaire Tested: **GPC-AF-02-LED-E1-T2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200016
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: GPC-AF-02-LED-E1-T2-7030
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11790.2 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B2 - U0 - G2

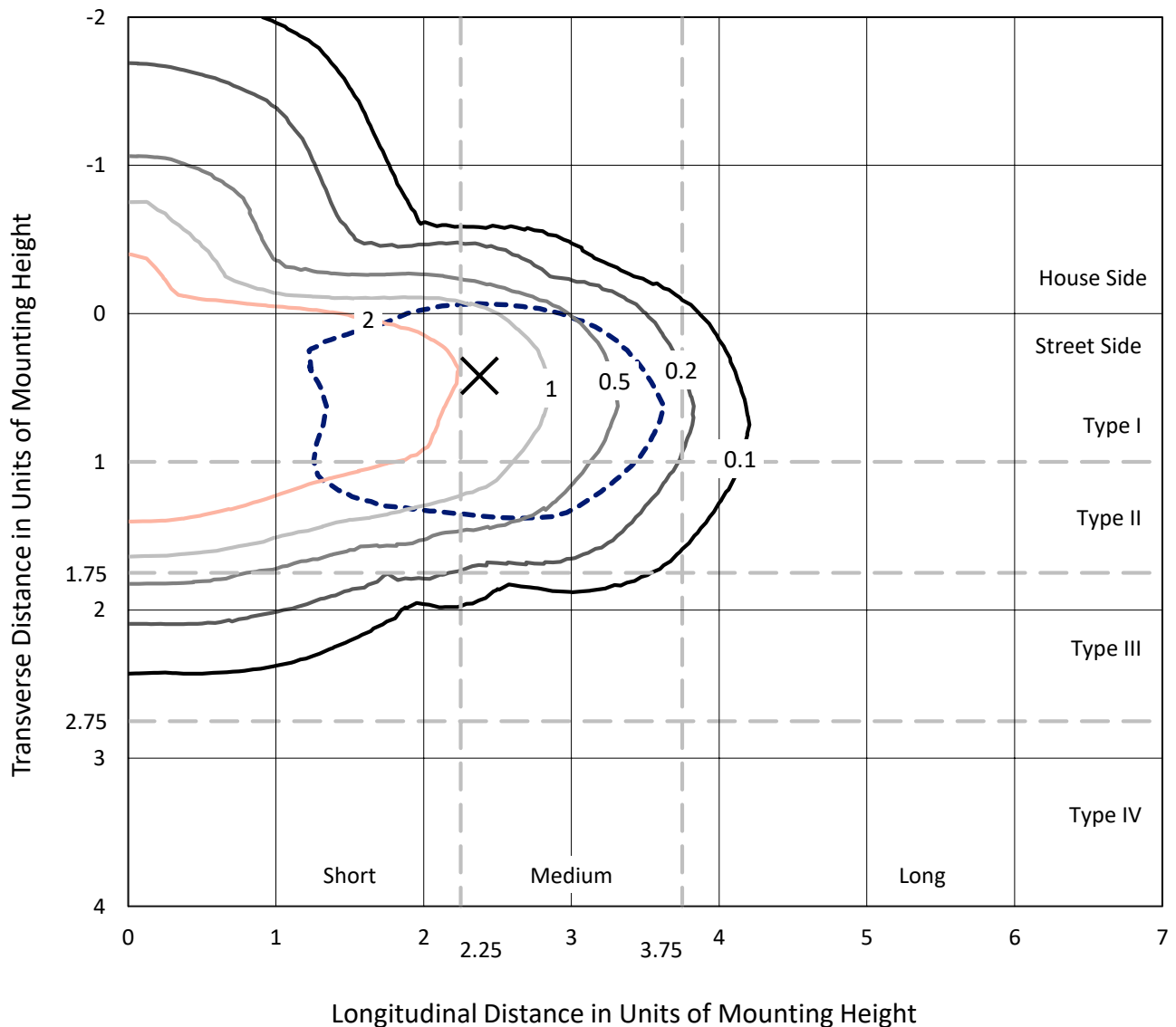
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P200016
 CATALOG NUMBER: GPC-AF-02-LED-E1-T2-7030

Iso-Footcandle Lines of Horizontal Illumination

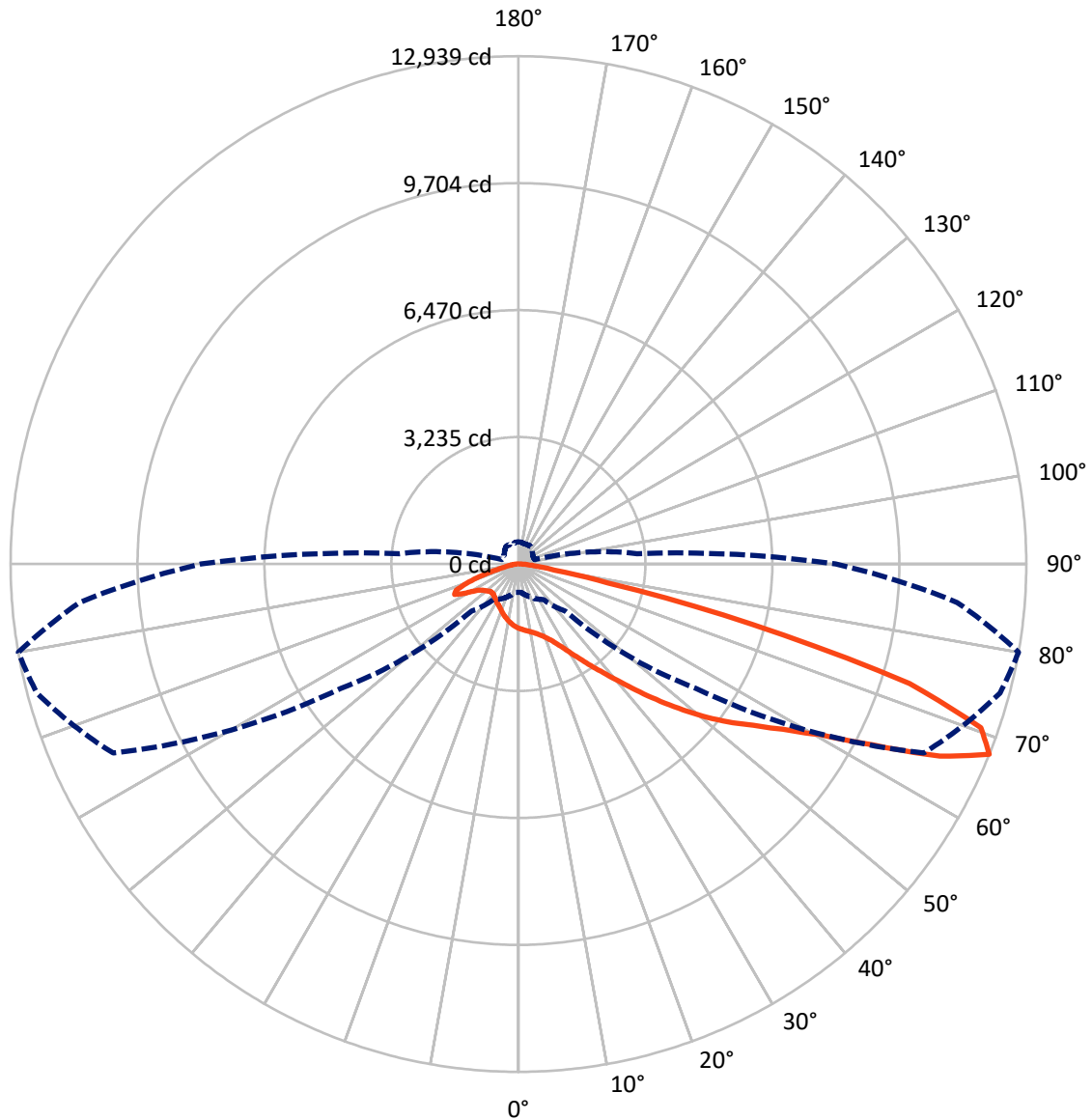
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P200016
CATALOG NUMBER: GPC-AF-02-LED-E1-T2-7030

Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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CATALOG NUMBER: GPC-AF-02-LED-E1-T2-7030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2171.3	0.0	2171.3
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	9618.9	0.0	9618.9
	% Fixture	81.6	0.0	81.6
Total	Lumens	11790.2	0.0	11790.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.1	1.3
10°-20°	435.3	3.7
20°-30°	720.5	6.1
30°-40°	1178.5	10.0
40°-50°	1902.8	16.1
50°-60°	2747.1	23.3
60°-70°	3031.6	25.7
70°-80°	1397.4	11.9
80°-90°	226.0	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°	11790.2	100.0
0°-180°	11790.2	100.0



REPORT NUMBER: P200016

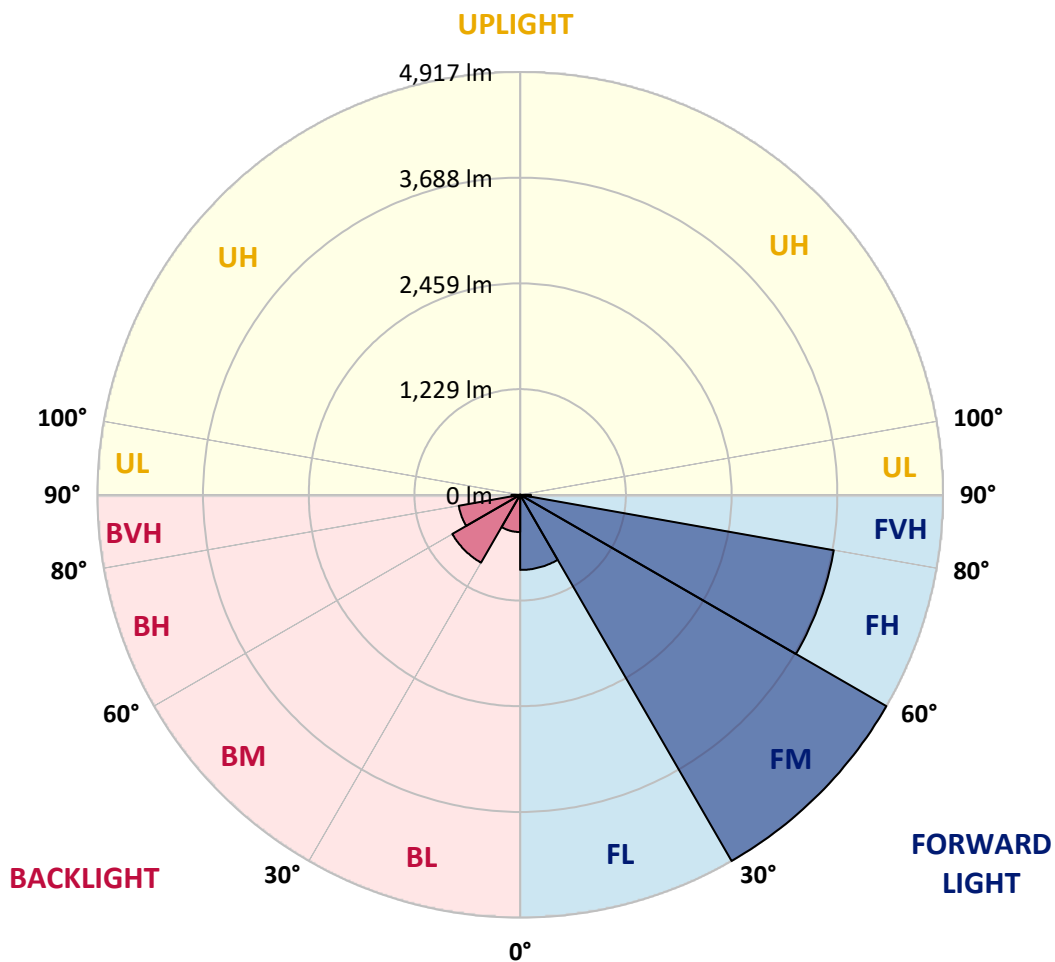
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	873.6	7.4			
FM (30°-60°)	4917.4	41.7			
FH (60°-80°)	3703.6	31.4			G2/5000
FVH (80°-90°)	124.3	1.1			G2/225
BL (0°-30°)	433.2	3.7	B1/500		
BM (30°-60°)	911.0	7.7	B1/1000		
BH (60°-80°)	725.3	6.2	B2/1000		G2/1000
BVH (80°-90°)	101.8	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium





REPORT NUMBER: P200016

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1
2.5°	1791.9	1781.4	1783.1	1780.2	1771.5	1756.5	1740.2	1710.6	1679.8	1663.6	1650.8
5°	1941.5	1938.7	1934.7	1925.3	1903.3	1871.9	1833.1	1780.8	1724.4	1694.8	1666.4
7.5°	2053.6	2051.9	2046.7	2040.9	2019.3	1981.6	1923.0	1848.6	1766.8	1726.2	1682.1
10°	2063.0	2065.8	2069.8	2085.5	2088.4	2068.1	2008.3	1918.4	1811.0	1758.7	1702.5
12.5°	1983.9	1990.3	2006.0	2046.1	2088.4	2113.4	2082.6	1991.5	1862.7	1799.4	1727.9
15°	1879.5	1883.0	1902.1	1957.3	2033.4	2110.5	2139.6	2072.2	1929.4	1851.6	1766.2
17.5°	1834.8	1836.5	1849.9	1886.5	1957.3	2067.5	2171.4	2159.8	2011.3	1916.6	1813.2
20°	1812.2	1816.2	1835.3	1871.3	1916.1	2012.3	2176.1	2254.4	2108.7	1998.0	1872.4
22.5°	1876.5	1874.8	1881.8	1899.8	1937.5	1995.5	2172.6	2352.0	2232.9	2102.3	1949.7
25°	2026.9	2033.4	2021.1	2000.7	2013.0	2053.6	2191.2	2457.6	2388.5	2236.4	2050.7
27.5°	2241.1	2234.7	2216.7	2169.2	2144.1	2161.5	2252.7	2571.3	2581.8	2412.9	2184.2
30°	2454.7	2449.5	2432.0	2373.9	2323.0	2308.4	2372.2	2702.0	2812.3	2624.7	2347.9
32.5°	2676.5	2670.7	2654.4	2596.3	2534.9	2501.2	2542.4	2852.9	3083.9	2877.8	2540.6
35°	2949.8	2938.7	2904.5	2823.8	2763.5	2737.4	2756.5	3042.7	3397.3	3177.4	2774.5
37.5°	3206.9	3223.8	3189.0	3077.5	2999.1	2989.9	3011.3	3274.3	3735.1	3512.2	3043.2
40°	3465.2	3468.1	3436.7	3345.6	3265.0	3249.9	3303.9	3555.2	4134.0	3912.7	3370.0
42.5°	3732.2	3738.0	3685.2	3601.0	3541.8	3544.7	3606.2	3884.2	4591.3	4384.7	3746.2
45°	4048.6	4057.3	3999.2	3889.0	3835.0	3943.5	3917.9	4253.5	5092.8	4920.9	4178.0
47.5°	4379.4	4392.8	4348.6	4245.4	4178.0	4327.2	4229.7	4662.6	5632.6	5496.2	4652.3
50°	4559.9	4579.0	4622.0	4614.4	4600.0	4575.0	4577.3	5101.5	6189.2	6095.1	5139.8
52.5°	4463.0	4462.3	4619.2	4809.5	5012.7	5027.8	5001.1	5564.0	6709.3	6680.8	5598.9
55°	4019.5	4049.7	4287.2	4655.6	5210.6	5557.2	5636.0	6094.1	7220.1	7253.1	6065.0
57.5°	3281.2	3306.1	3626.6	4140.3	4943.6	5871.7	6539.1	6864.2	7791.3	7945.7	6685.5
60°	2225.4	2255.5	2595.1	3212.1	4225.0	5696.4	7398.8	8238.7	8475.0	8826.2	7556.2
62.5°	1307.8	1335.0	1611.9	2026.3	2974.7	4882.0	7776.1	10194.2	9560.9	10154.8	8884.2
65°	900.3	918.9	1053.5	1261.3	1709.4	3288.1	7308.4	11544.4	11232.1	11800.9	10424.1
67.5°	724.4	722.1	828.8	970.4	1100.5	1695.4	5526.4	11391.7	12701.7	12939.1	11223.3
70°	596.7	594.4	666.9	784.2	879.3	954.8	3010.2	9613.1	12402.2	12498.6	10487.4
72.5°	499.2	501.5	547.9	635.1	721.4	719.2	1322.8	6762.7	9756.7	10422.9	8360.1
75°	421.4	422.5	453.3	514.8	585.6	579.3	717.4	3663.7	5671.4	6135.2	4634.2
77.5°	358.7	359.9	379.5	413.9	464.4	462.0	523.6	1582.8	2365.9	2336.8	1585.2
80°	319.8	319.8	329.1	335.5	363.4	352.9	388.3	760.3	1000.0	923.5	632.7
82.5°	250.7	252.0	308.7	306.5	286.2	272.8	272.8	448.1	529.9	489.9	370.3
85°	141.1	140.5	199.1	240.3	252.0	192.1	190.3	250.7	288.5	254.2	179.4
87.5°	60.3	61.5	92.4	106.7	142.8	119.5	117.8	129.5	146.9	127.1	83.0
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°	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1
2.5°	1638.6	1623.5	1590.4	1549.2	1512.0	1487.7	1465.6	1433.7	1435.4	1413.4	1397.1
5°	1637.5	1606.1	1529.4	1438.3	1350.7	1287.4	1239.8	1196.8	1186.4	1166.2	1153.9
7.5°	1638.6	1587.5	1458.6	1313.0	1204.4	1124.3	1083.7	1061.0	1055.8	1048.9	1049.4
10°	1642.6	1570.7	1380.8	1195.8	1081.8	1029.1	1019.3	1026.2	1034.3	1036.7	1037.2
12.5°	1651.9	1555.6	1295.5	1091.2	1005.3	989.1	1006.0	1029.7	1045.4	1052.9	1052.3
15°	1672.9	1544.0	1213.7	1009.3	962.9	971.7	1003.0	1036.7	1059.3	1069.7	1070.3
17.5°	1695.4	1527.1	1129.5	946.7	931.7	953.7	992.5	1032.1	1060.0	1071.5	1073.8
20°	1725.1	1506.2	1041.4	899.6	902.1	926.9	963.5	1003.0	1033.8	1043.7	1048.3
22.5°	1764.0	1483.6	964.1	861.4	868.3	887.5	915.9	950.2	976.9	981.4	985.6
25°	1816.2	1459.2	902.6	826.5	829.5	840.4	859.7	880.0	898.5	893.3	897.3
27.5°	1886.5	1438.3	856.7	794.7	789.4	791.7	801.6	808.0	817.8	803.3	805.0
30°	1968.9	1415.7	821.3	766.8	752.2	748.2	750.5	754.0	761.5	741.8	738.9
32.5°	2064.7	1388.3	788.2	742.4	722.1	713.9	715.1	724.4	753.5	741.3	734.9
35°	2176.1	1357.6	753.5	715.6	701.8	690.2	689.0	718.1	804.4	796.9	791.1
37.5°	2306.7	1326.9	718.6	685.5	686.7	673.9	669.9	702.9	814.3	784.7	780.6
40°	2472.6	1310.7	689.0	653.6	668.1	666.4	658.2	675.0	749.3	695.3	688.5
42.5°	2678.2	1313.0	666.9	619.3	646.0	664.7	651.8	652.4	679.1	638.5	632.1
45°	2931.8	1340.3	651.3	592.0	621.0	662.8	649.5	640.3	642.6	621.0	617.6
47.5°	3227.8	1396.6	640.3	569.5	597.3	656.4	648.9	636.8	631.5	619.9	617.0
50°	3556.9	1478.4	632.1	547.9	575.8	646.0	649.5	633.2	627.4	622.8	621.0
52.5°	3880.3	1571.8	619.9	529.4	559.0	633.2	651.3	629.8	623.5	619.9	618.2
55°	4240.7	1688.5	601.4	513.7	544.9	617.0	651.3	624.5	617.6	618.2	617.6
57.5°	4727.6	1877.2	579.3	500.3	528.2	597.3	640.3	618.7	610.0	610.6	611.2
60°	5488.6	2209.8	552.6	487.0	507.3	574.0	625.2	606.0	597.3	599.7	600.2
62.5°	6607.7	2697.8	517.8	467.3	485.2	549.1	604.2	589.7	581.0	586.8	586.8
65°	7770.9	3128.5	474.8	442.3	462.0	521.8	578.1	569.5	560.7	574.0	573.5
67.5°	8083.8	3032.2	431.8	414.9	438.7	491.6	546.8	542.2	537.4	560.7	559.5
70°	7181.2	2434.4	392.3	387.1	413.2	459.1	513.1	513.1	510.2	527.6	523.6
72.5°	5471.1	1726.2	354.6	357.5	384.3	423.7	476.6	480.6	476.0	484.7	481.2
75°	2928.9	987.9	317.0	325.0	348.2	387.8	436.0	440.0	437.0	436.5	438.2
77.5°	973.4	482.9	277.4	290.2	310.6	350.6	393.6	399.9	393.0	391.8	391.2
80°	433.5	303.5	234.0	250.7	268.8	308.2	348.9	354.1	346.6	356.9	343.6
82.5°	278.6	199.6	187.5	206.1	223.4	265.8	304.2	305.3	298.4	346.6	295.4
85°	135.3	123.7	141.1	157.9	172.9	208.9	252.0	252.5	235.1	214.1	206.6
87.5°	67.3	72.0	94.1	109.2	116.7	143.3	183.4	180.0	172.4	156.7	144.5
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)