

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: P270225

Luminaire Tested: **GWC-AF-02-LED-E1-T2-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270225
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: GWC-AF-02-LED-E1-T2-7027
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10591.2 lumens
Efficiency: N/A
Efficacy: 93.7 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

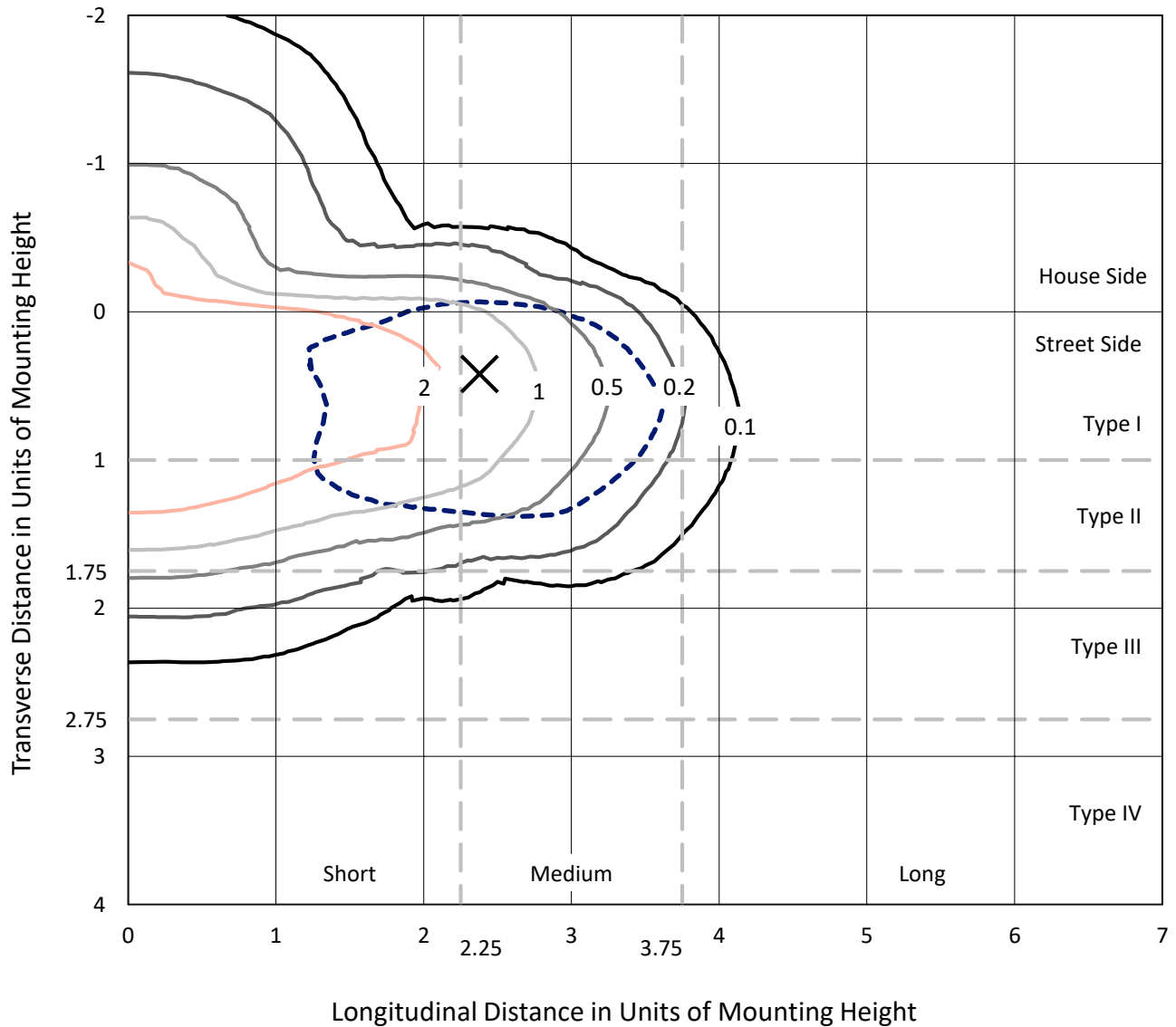
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

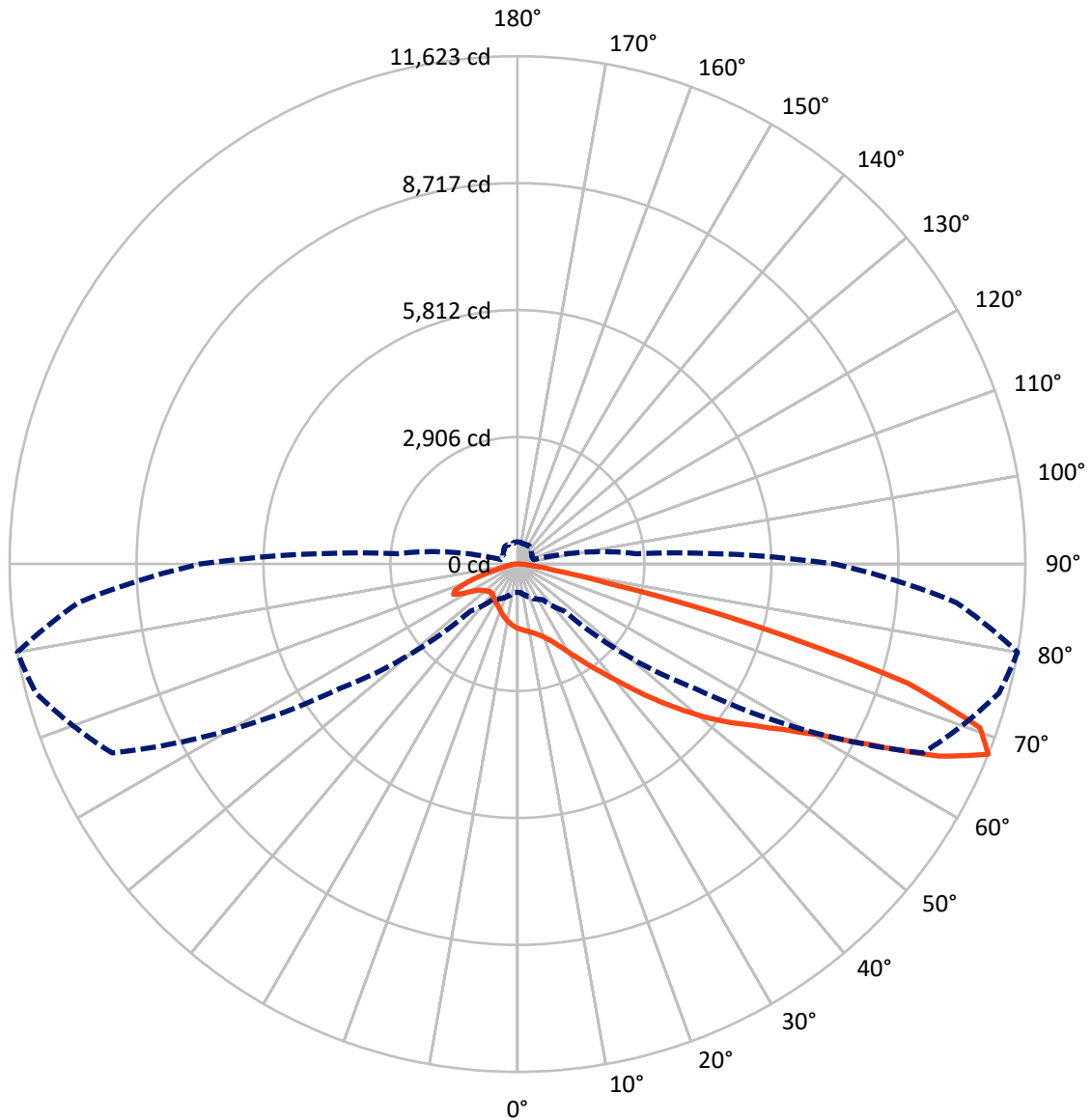
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 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	1950.5	0.0	1950.5
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	8640.7	0.0	8640.7
	% Fixture	81.6	0.0	81.6
Total	Lumens	10591.2	0.0	10591.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.7	1.3
10°-20°	391.0	3.7
20°-30°	647.2	6.1
30°-40°	1058.7	10.0
40°-50°	1709.3	16.1
50°-60°	2467.7	23.3
60°-70°	2723.3	25.7
70°-80°	1255.3	11.9
80°-90°	203.0	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°	10591.2	100.0
0°-180°	10591.2	100.0



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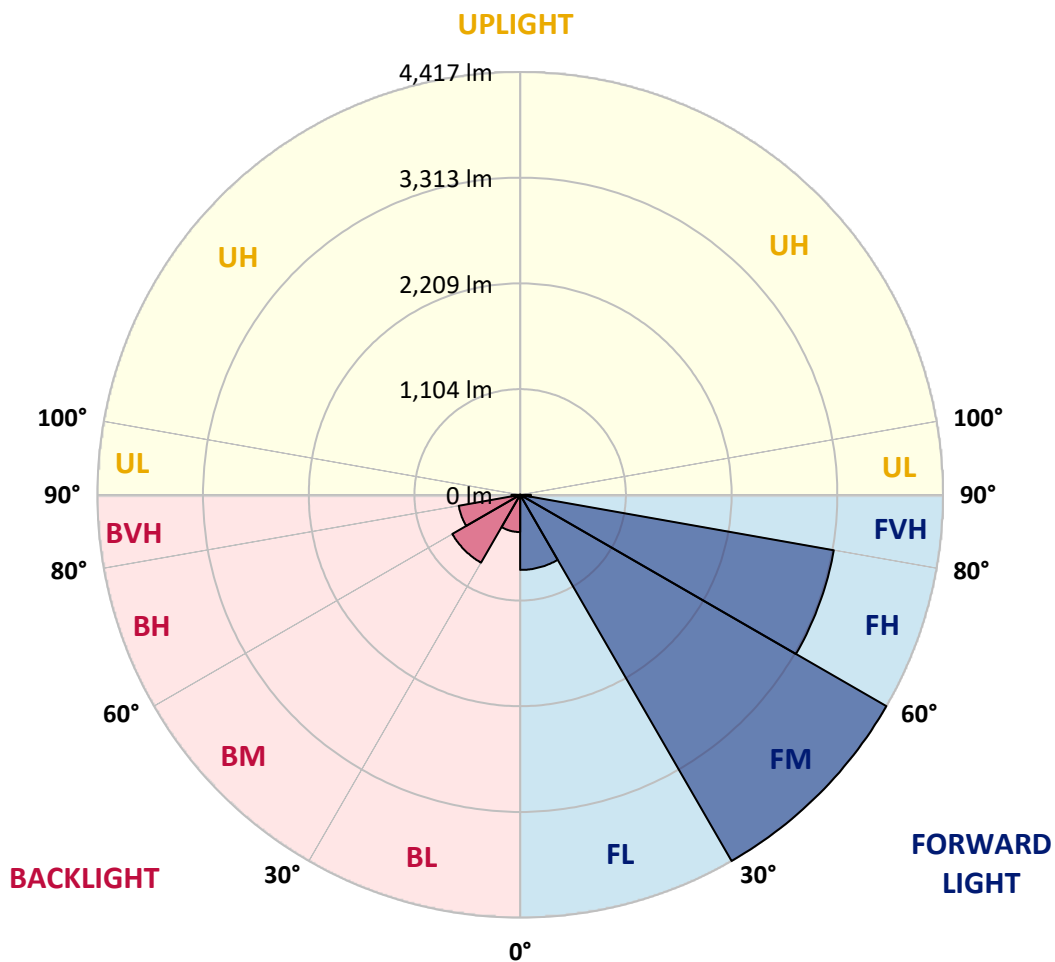
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	784.8	7.4			
FM (30°-60°)	4417.3	41.7			
FH (60°-80°)	3327.0	31.4			G2/5000
FVH (80°-90°)	111.6	1.1			G2/225
BL (0°-30°)	389.2	3.7	B1/500		
BM (30°-60°)	818.4	7.7	B1/1000		
BH (60°-80°)	651.6	6.2	B2/1000		G2/1000
BVH (80°-90°)	91.4	0.9			G1/100
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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	1471.5	1471.5	1471.5	1471.5	1471.5	1471.5	1471.5	1471.5	1471.5	1471.5	1471.5
2.5°	1609.7	1600.2	1601.8	1599.2	1591.3	1577.9	1563.2	1536.6	1509.0	1494.4	1482.9
5°	1744.1	1741.5	1738.0	1729.5	1709.7	1681.5	1646.7	1599.7	1549.0	1522.4	1496.9
7.5°	1844.8	1843.2	1838.6	1833.4	1813.9	1780.1	1727.4	1660.6	1587.1	1550.7	1511.0
10°	1853.2	1855.7	1859.3	1873.4	1876.0	1857.8	1804.1	1723.3	1626.8	1579.8	1529.4
12.5°	1782.1	1787.9	1802.0	1838.0	1876.0	1898.5	1870.8	1789.0	1673.3	1616.4	1552.2
15°	1688.4	1691.5	1708.7	1758.3	1826.6	1895.9	1922.0	1861.5	1733.2	1663.3	1586.6
17.5°	1648.2	1649.7	1661.8	1694.7	1758.3	1857.2	1950.6	1940.2	1806.8	1721.7	1628.8
20°	1627.9	1631.5	1648.7	1681.0	1721.2	1807.7	1954.8	2025.1	1894.3	1794.8	1682.0
22.5°	1685.7	1684.1	1690.4	1706.6	1740.5	1792.6	1951.7	2112.8	2005.8	1888.5	1751.4
25°	1820.8	1826.6	1815.6	1797.2	1808.3	1844.8	1968.4	2207.7	2145.6	2009.0	1842.2
27.5°	2013.2	2007.4	1991.3	1948.6	1926.1	1941.7	2023.6	2309.8	2319.2	2167.5	1962.1
30°	2205.1	2200.4	2184.7	2132.5	2086.8	2073.6	2131.0	2427.2	2526.3	2357.8	2109.1
32.5°	2404.3	2399.1	2384.5	2332.3	2277.1	2246.8	2283.9	2562.8	2770.3	2585.1	2282.2
35°	2649.8	2639.8	2609.1	2536.6	2482.5	2459.0	2476.2	2733.3	3051.8	2854.3	2492.3
37.5°	2880.8	2896.0	2864.7	2764.5	2694.1	2685.8	2705.1	2941.3	3355.3	3155.0	2733.7
40°	3112.8	3115.4	3087.2	3005.4	2933.0	2919.4	2967.9	3193.7	3713.6	3514.8	3027.3
42.5°	3352.7	3357.9	3310.4	3234.8	3181.6	3184.2	3239.5	3489.2	4124.4	3938.8	3365.2
45°	3636.9	3644.7	3592.5	3493.5	3445.0	3542.5	3519.5	3820.9	4574.9	4420.5	3753.1
47.5°	3934.0	3946.1	3906.4	3813.7	3753.1	3887.1	3799.6	4188.4	5059.8	4937.3	4179.2
50°	4096.2	4113.3	4152.0	4145.1	4132.2	4109.7	4111.8	4582.7	5559.8	5475.3	4617.1
52.5°	4009.1	4008.5	4149.5	4320.4	4502.9	4516.5	4492.5	4998.2	6027.0	6001.4	5029.5
55°	3610.7	3637.9	3851.2	4182.1	4680.7	4992.1	5062.8	5474.4	6485.9	6515.5	5448.2
57.5°	2947.5	2969.9	3257.8	3719.3	4440.9	5274.6	5874.1	6166.1	6999.0	7137.7	6005.6
60°	1999.1	2026.1	2331.2	2885.4	3795.3	5117.1	6646.4	7400.9	7613.1	7928.6	6787.8
62.5°	1174.8	1199.2	1448.0	1820.2	2672.2	4385.5	6985.3	9157.5	8588.6	9122.1	7980.7
65°	808.7	825.5	946.4	1133.0	1535.6	2953.7	6565.2	10370.4	10089.9	10600.8	9364.0
67.5°	650.7	648.7	744.5	871.7	988.6	1523.0	4964.4	10233.2	11410.0	11623.3	10081.9
70°	536.0	534.0	599.1	704.5	789.9	857.7	2704.1	8635.5	11141.0	11227.6	9420.9
72.5°	448.4	450.5	492.2	570.5	648.0	646.1	1188.3	6075.0	8764.5	9362.9	7509.9
75°	378.5	379.5	407.2	462.4	526.0	520.4	644.4	3291.1	5094.6	5511.3	4162.9
77.5°	322.2	323.3	340.9	371.8	417.2	415.0	470.4	1421.8	2125.3	2099.2	1424.0
80°	287.3	287.3	295.6	301.4	326.4	317.0	348.8	683.0	898.3	829.6	568.4
82.5°	225.2	226.4	277.3	275.3	257.1	245.1	245.1	402.5	476.0	440.1	332.6
85°	126.8	126.2	178.9	215.9	226.4	172.6	170.9	225.2	259.2	228.3	161.2
87.5°	54.2	55.2	83.0	95.8	128.3	107.3	105.8	116.3	132.0	114.2	74.6
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°	1471.5	1471.5	1471.5	1471.5	1471.5	1471.5	1471.5	1471.5	1471.5	1471.5	1471.5
2.5°	1472.0	1458.4	1428.7	1391.7	1358.2	1336.4	1316.6	1287.9	1289.4	1269.7	1255.0
5°	1471.0	1442.8	1373.9	1292.0	1213.3	1156.5	1113.7	1075.1	1065.7	1047.6	1036.6
7.5°	1472.0	1426.1	1310.3	1179.5	1081.9	1010.0	973.5	953.1	948.4	942.2	942.7
10°	1475.6	1411.0	1240.4	1074.2	971.8	924.4	915.6	921.8	929.1	931.3	931.7
12.5°	1483.9	1397.4	1163.8	980.2	903.1	888.5	903.7	925.0	939.1	945.8	945.3
15°	1502.8	1387.0	1090.3	906.7	865.0	872.9	901.0	931.3	951.6	960.9	961.5
17.5°	1523.0	1371.8	1014.6	850.4	837.0	856.7	891.6	927.1	952.2	962.5	964.6
20°	1549.7	1353.0	935.5	808.1	810.4	832.6	865.5	901.0	928.7	937.6	941.7
22.5°	1584.6	1332.7	866.1	773.8	780.0	797.2	822.8	853.6	877.6	881.6	885.4
25°	1631.5	1310.8	810.8	742.4	745.1	754.9	772.3	790.5	807.1	802.5	806.0
27.5°	1694.7	1292.0	769.6	713.9	709.1	711.2	720.1	725.8	734.6	721.6	723.1
30°	1768.7	1271.7	737.8	688.8	675.7	672.1	674.2	677.3	684.1	666.4	663.8
32.5°	1854.7	1247.1	708.0	666.9	648.7	641.3	642.4	650.7	676.9	665.9	660.2
35°	1954.8	1219.5	676.9	642.8	630.4	620.0	618.9	645.1	722.6	715.9	710.6
37.5°	2072.1	1192.0	645.5	615.8	616.9	605.4	601.8	631.4	731.5	704.9	701.2
40°	2221.1	1177.4	618.9	587.1	600.2	598.6	591.3	606.4	673.1	624.6	618.5
42.5°	2405.8	1179.5	599.1	556.3	580.3	597.1	585.5	586.1	610.0	573.6	567.8
45°	2633.7	1204.0	585.1	531.8	557.8	595.4	583.4	575.2	577.3	557.8	554.8
47.5°	2899.5	1254.6	575.2	511.6	536.6	589.6	582.9	572.0	567.3	556.9	554.3
50°	3195.2	1328.1	567.8	492.2	517.2	580.3	583.4	568.8	563.6	559.5	557.8
52.5°	3485.7	1412.0	556.9	475.6	502.2	568.8	585.1	565.8	560.1	556.9	555.3
55°	3809.4	1516.8	540.2	461.5	489.5	554.3	585.1	561.0	554.8	555.3	554.8
57.5°	4246.8	1686.3	520.4	449.4	474.5	536.6	575.2	555.8	548.0	548.5	549.0
60°	4930.4	1985.1	496.4	437.5	455.7	515.6	561.6	544.4	536.6	538.7	539.2
62.5°	5935.7	2423.4	465.1	419.8	435.9	493.3	542.8	529.7	521.9	527.1	527.1
65°	6980.6	2810.3	426.5	397.3	415.0	468.7	519.3	511.6	503.7	515.6	515.2
67.5°	7261.7	2723.8	387.9	372.7	394.1	441.6	491.2	487.1	482.7	503.7	502.6
70°	6450.9	2186.8	352.4	347.7	371.2	412.4	460.9	460.9	458.3	473.9	470.4
72.5°	4914.7	1550.7	318.5	321.1	345.2	380.6	428.1	431.7	427.6	435.4	432.3
75°	2631.0	887.4	284.8	291.9	312.8	348.4	391.7	395.3	392.6	392.1	393.6
77.5°	874.4	433.8	249.2	260.7	279.0	314.9	353.6	359.2	353.0	352.0	351.4
80°	389.4	272.6	210.2	225.2	241.5	276.9	313.4	318.1	311.4	320.6	308.7
82.5°	250.3	179.3	168.4	185.1	200.7	238.8	273.3	274.3	268.1	311.4	265.4
85°	121.5	111.1	126.8	141.8	155.3	187.7	226.4	226.8	211.2	192.3	185.6
87.5°	60.5	64.7	84.5	98.1	104.8	128.7	164.7	161.7	154.9	140.8	129.8
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)