

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P636240

Luminaire Tested: GWS-SA3F-735-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636240
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3F-735-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24590 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

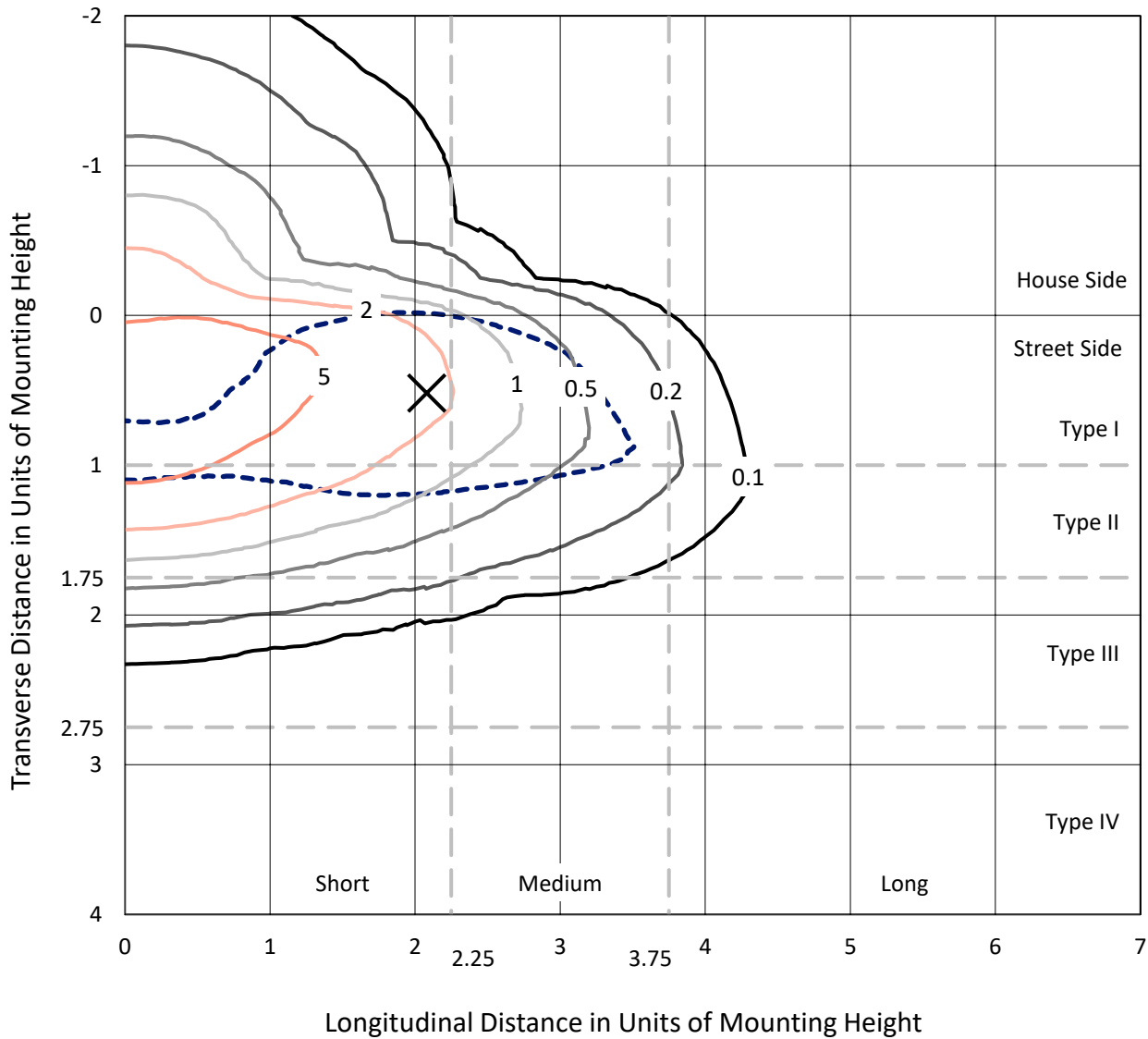


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Iso-Footcandle Lines of Horizontal Illumination

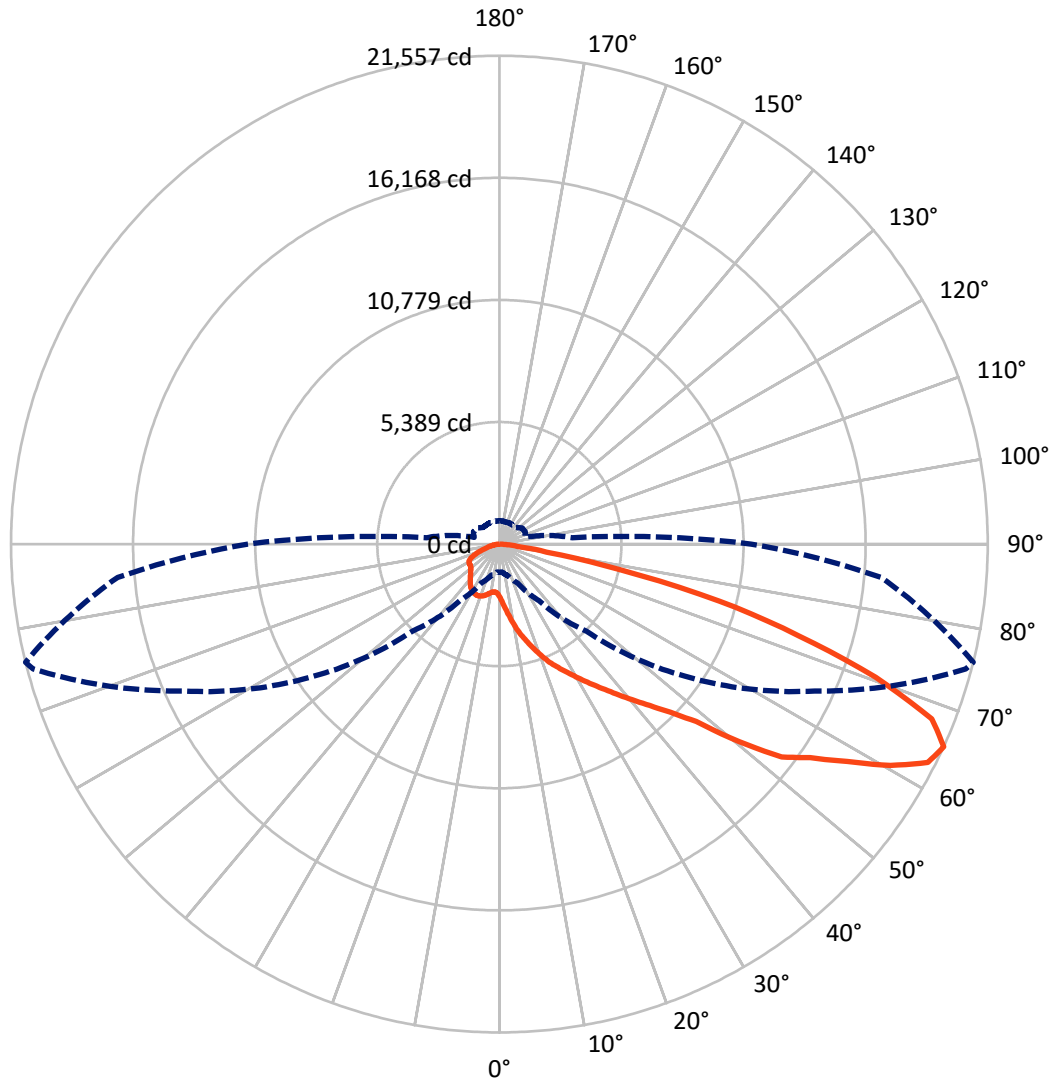
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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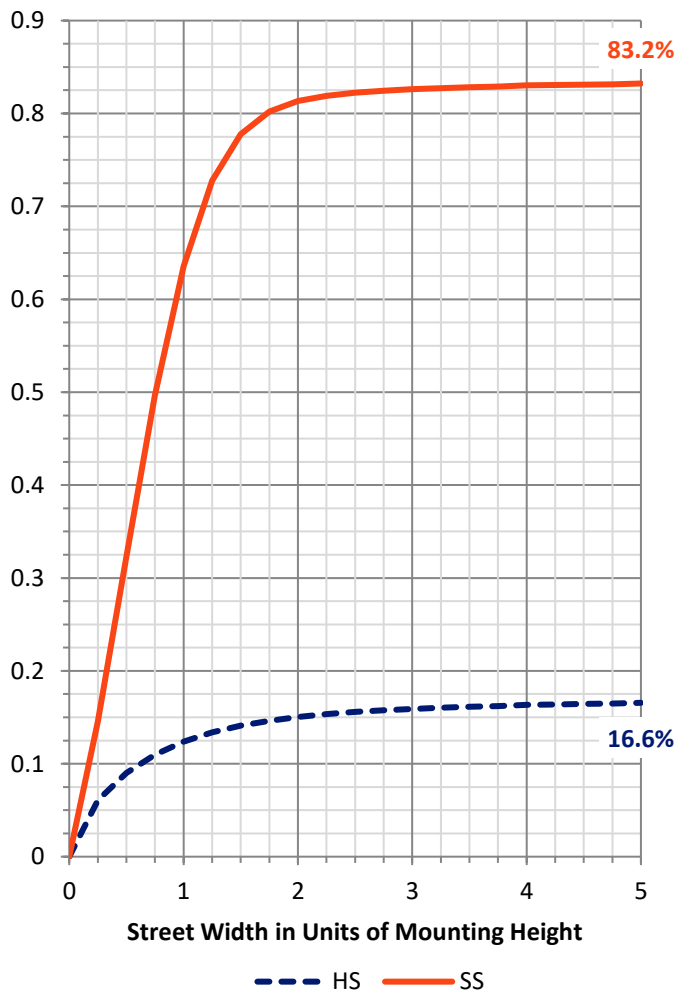
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4110.2	0.0	4110.2
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	20479.8	0.0	20479.8
	% Fixture	83.3	0.0	83.3
Total	Lumens	24590.0	0.0	24590.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.6	1.1
10°-20°	1053.7	4.3
20°-30°	2053.6	8.4
30°-40°	3434.5	14.0
40°-50°	4917.5	20.0
50°-60°	5821.6	23.7
60°-70°	4840.7	19.7
70°-80°	1980.9	8.1
80°-90°	210.9	0.9
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°	24590.0	100.0
0°-180°	24590.0	100.0

Coefficient of Utilization



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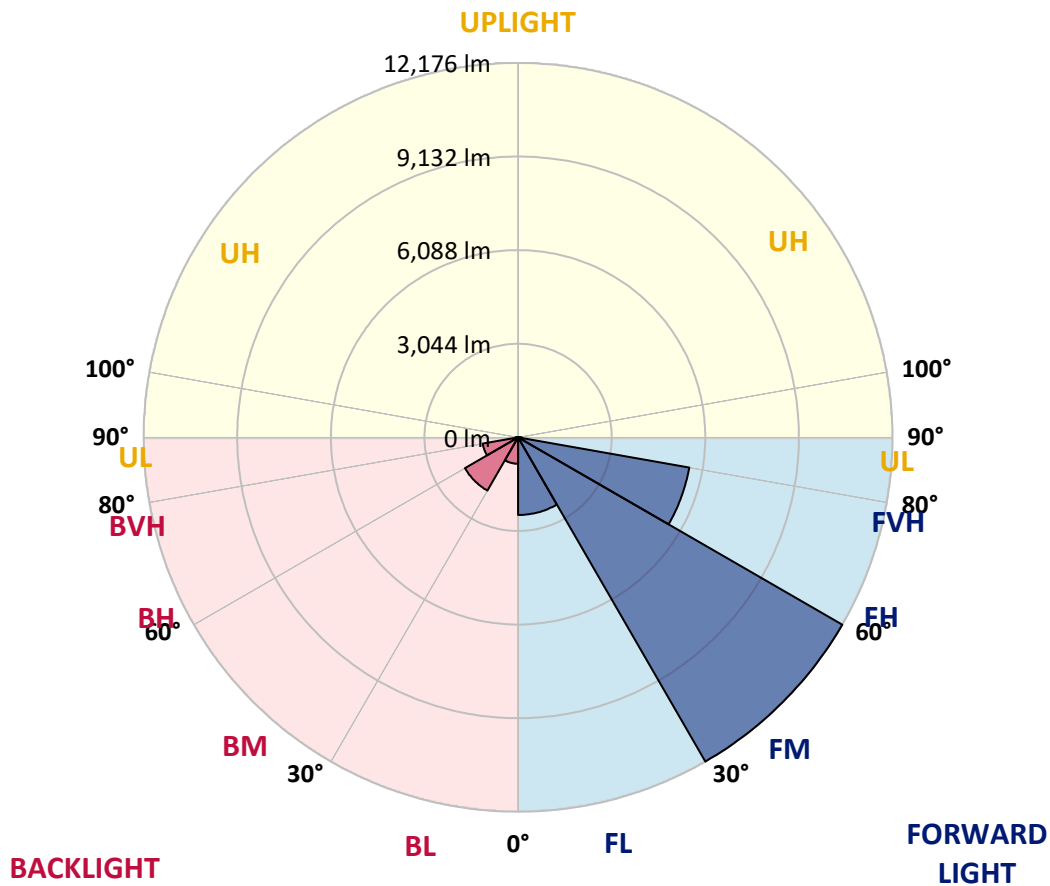
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2524.1	10.3			
FM (30°-60°)	12176.0	49.5			
FH (60°-80°)	5653.9	23.0			G3/7500
FVH (80°-90°)	125.8	0.5			G2/225
BL (0°-30°)	859.9	3.5	B2/1000		
BM (30°-60°)	1997.5	8.1	B2/2500		
BH (60°-80°)	1167.8	4.7	B3/2500		G3/2500
BVH (80°-90°)	85.1	0.3			G1/100
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2328.6	2328.6	2328.6	2328.6	2328.6	2328.6	2328.6	2328.6	2328.6	2328.6	2328.6
2.5°	3263.8	3275.9	3236.2	3222.3	3129.0	3002.8	2897.3	2738.3	2591.3	2568.9	2437.5
5°	4145.5	4093.6	4048.7	4019.3	3889.6	3746.1	3523.1	3224.1	2911.2	2873.1	2589.6
7.5°	4669.3	4660.6	4605.3	4588.0	4487.7	4344.3	4114.3	3742.7	3288.0	3225.8	2795.3
10°	5089.3	5084.2	5056.5	5072.1	4980.4	4840.4	4617.4	4233.6	3701.2	3638.9	3025.3
12.5°	5455.8	5464.5	5459.3	5516.3	5469.7	5360.8	5129.1	4707.3	4114.3	4046.9	3305.3
15°	5723.8	5730.7	5756.6	5881.1	5907.0	5884.6	5649.4	5172.3	4522.3	4425.5	3594.0
17.5°	5799.8	5813.7	5875.9	6076.4	6216.5	6309.8	6135.2	5646.0	4923.4	4817.9	3887.9
20°	5901.8	5917.4	5979.6	6188.8	6394.5	6607.2	6576.0	6126.6	5327.9	5241.5	4185.2
22.5°	6373.8	6361.7	6334.0	6434.3	6581.2	6845.7	6923.5	6588.1	5746.3	5663.3	4513.7
25°	7283.1	7260.6	7084.3	6992.7	6944.3	7105.0	7243.3	7008.2	6154.2	6029.8	4819.7
27.5°	8285.7	8273.6	8048.9	7831.1	7533.7	7464.6	7545.9	7374.7	6550.1	6423.9	5085.9
30°	9234.8	9198.5	8963.4	8690.3	8292.7	7995.3	7876.0	7734.3	6984.0	6852.6	5397.1
32.5°	10083.6	10036.9	9760.3	9457.8	9041.2	8690.3	8334.1	8116.3	7475.0	7322.8	5715.1
35°	10780.3	10733.6	10450.1	10128.6	9670.4	9411.1	8923.6	8531.2	7974.6	7820.7	6090.3
37.5°	11319.6	11276.4	10980.8	10664.5	10265.1	10059.4	9635.9	8998.0	8550.2	8389.5	6487.9
40°	11622.2	11591.0	11354.2	11103.6	10768.2	10590.1	10400.0	9587.5	9195.0	9034.3	6956.4
42.5°	11713.8	11693.0	11527.1	11397.4	11171.0	11036.1	11145.0	10280.7	9883.1	9743.1	7483.6
45°	11483.9	11483.9	11435.5	11501.2	11511.5	11509.8	11891.8	11063.8	10728.4	10574.6	8227.0
47.5°	10896.1	10934.1	11005.0	11328.3	11668.8	11954.1	12764.8	12107.9	11815.8	11689.6	9279.8
50°	9820.8	9924.6	10166.6	10797.6	11521.9	12248.0	13591.2	13651.7	13930.0	13707.0	10828.7
52.5°	8246.0	8230.4	8847.6	9746.5	10851.2	12260.1	14045.8	15013.9	15762.4	15608.6	11980.0
55°	6553.6	6527.6	7103.3	8342.8	9822.6	11796.8	14319.0	15638.0	16778.9	16640.6	13015.5
57.5°	5018.5	4985.6	5497.3	6615.8	8370.4	10813.1	14267.1	16381.3	18177.5	18106.6	14422.7
60°	3454.0	3414.2	3893.1	4871.5	6652.1	9309.1	13693.2	16763.4	19814.6	19838.8	15928.4
62.5°	2074.5	2052.0	2399.5	3158.4	4785.1	7445.6	12350.0	16531.7	21118.0	21226.9	16896.5
65°	1251.6	1236.0	1440.0	1884.3	3035.6	5433.4	10279.0	15347.6	21306.4	21557.1	16919.0
67.5°	911.0	912.8	971.5	1147.9	1770.2	3509.3	7713.5	13224.7	20324.5	20583.8	15852.3
70°	791.8	795.2	826.3	866.1	1070.1	2008.8	5015.0	10439.7	17422.0	17622.5	13295.6
72.5°	703.6	703.6	724.3	745.1	836.7	1223.9	2686.4	7296.9	13750.2	13803.8	10147.6
75°	618.9	613.7	624.1	634.4	726.1	855.7	1306.9	5084.2	10156.2	10031.7	6558.8
77.5°	492.7	487.5	489.2	499.6	582.6	612.0	662.1	3175.7	5723.8	5402.2	2897.3
80°	350.9	347.5	366.5	392.4	430.5	375.1	414.9	1536.8	2269.8	2112.5	1123.7
82.5°	209.2	216.1	245.5	266.2	297.3	235.1	268.0	513.4	803.9	783.1	456.4
85°	29.4	31.1	88.2	102.0	127.9	91.6	141.8	231.6	321.5	344.0	160.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	12.1	41.5	91.6	93.4	39.8
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°	2328.6	2328.6	2328.6	2328.6	2328.6	2328.6	2328.6	2328.6	2328.6	2328.6	2328.6
2.5°	2370.1	2288.8	2173.0	2076.2	1994.9	1929.2	1873.9	1832.4	1820.3	1803.1	1803.1
5°	2456.5	2309.6	2102.1	1955.2	1870.5	1820.3	1785.8	1768.5	1759.8	1749.5	1744.3
7.5°	2575.8	2370.1	2090.0	1941.3	1875.7	1844.5	1822.1	1811.7	1804.8	1794.4	1794.4
10°	2740.0	2460.0	2128.1	1989.8	1937.9	1906.8	1880.8	1863.6	1848.0	1832.4	1829.0
12.5°	2918.1	2577.5	2197.2	2055.4	2000.1	1962.1	1925.8	1899.9	1880.8	1861.8	1856.6
15°	3115.1	2698.5	2271.5	2119.4	2050.3	1998.4	1955.2	1915.4	1889.5	1861.8	1858.4
17.5°	3308.8	2821.3	2333.8	2162.6	2074.5	2010.5	1948.3	1896.4	1863.6	1832.4	1823.8
20°	3540.4	2944.0	2377.0	2174.7	2069.3	1984.6	1910.2	1844.5	1808.2	1771.9	1766.7
22.5°	3753.0	3058.1	2397.7	2157.4	2029.5	1929.2	1842.8	1771.9	1732.2	1695.9	1689.0
25°	3958.8	3158.4	2389.1	2115.9	1969.0	1853.2	1763.3	1692.4	1654.4	1616.4	1606.0
27.5°	4157.6	3225.8	2354.5	2052.0	1892.9	1768.5	1682.0	1618.1	1585.2	1552.4	1538.6
30°	4352.9	3288.0	2300.9	1969.0	1796.1	1680.3	1609.4	1564.5	1531.6	1497.1	1486.7
32.5°	4550.0	3333.0	2219.7	1872.2	1697.6	1602.5	1559.3	1526.5	1491.9	1457.3	1446.9
35°	4748.8	3352.0	2121.1	1761.6	1614.6	1552.4	1536.8	1498.8	1452.1	1410.6	1396.8
37.5°	4985.6	3369.3	1998.4	1652.7	1542.0	1528.2	1524.7	1467.7	1412.4	1355.3	1339.8
40°	5270.9	3391.7	1872.2	1554.1	1483.2	1519.5	1505.7	1427.9	1317.3	1262.0	1244.7
42.5°	5620.1	3433.2	1740.8	1464.2	1440.0	1486.7	1471.1	1331.1	1256.8	1225.7	1217.0
45°	6133.5	3585.4	1609.4	1393.3	1407.2	1440.0	1415.8	1274.1	1244.7	1223.9	1213.6
47.5°	7048.0	3818.7	1495.3	1339.8	1381.2	1398.5	1305.2	1258.5	1236.0	1208.4	1196.3
50°	7998.8	3920.7	1403.7	1306.9	1351.9	1360.5	1244.7	1237.8	1222.2	1192.8	1180.7
52.5°	8641.9	3906.9	1348.4	1294.8	1327.7	1294.8	1217.0	1215.3	1204.9	1170.3	1156.5
55°	9367.9	3931.1	1324.2	1298.3	1317.3	1184.2	1182.4	1187.6	1182.4	1144.4	1137.5
57.5°	10348.1	4005.4	1312.1	1310.4	1310.4	1130.6	1149.6	1156.5	1146.1	1128.9	1123.7
60°	11290.3	4010.6	1289.6	1324.2	1305.2	1097.7	1111.6	1118.5	1106.4	1102.9	1101.2
62.5°	11644.6	3761.7	1239.5	1313.8	1284.4	1061.4	1071.8	1075.3	1063.2	1071.8	1070.1
65°	11117.4	3232.7	1156.5	1263.7	1220.5	1028.6	1021.7	1030.3	1009.6	1032.0	1033.8
67.5°	9871.0	2568.9	1030.3	1168.6	1130.6	992.3	978.5	978.5	943.9	978.5	976.7
70°	7959.0	1815.2	845.3	1016.5	1032.0	949.1	942.2	902.4	847.1	898.9	893.7
72.5°	6033.2	1303.5	665.6	803.9	888.6	888.6	890.3	822.9	758.9	783.1	762.4
75°	3822.2	917.9	532.4	615.4	696.7	779.7	819.4	694.9	637.9	627.5	617.2
77.5°	1721.8	603.3	414.9	471.9	494.4	615.4	748.5	598.1	520.3	497.9	491.0
80°	720.9	375.1	295.6	333.6	304.3	516.9	660.4	465.0	382.0	350.9	328.5
82.5°	316.4	223.0	188.4	179.8	190.2	383.8	492.7	309.4	238.6	323.3	326.7
85°	133.1	117.6	96.8	88.2	77.8	146.9	231.6	121.0	148.7	84.7	69.1
87.5°	31.1	34.6	25.9	17.3	10.4	1.7	0.0	0.0	0.0	0.0	0.0
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)