

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: P631573

Luminaire Tested: GWS-SA1F-830-U-T3R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631573  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1F-830-U-T3R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: (16) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

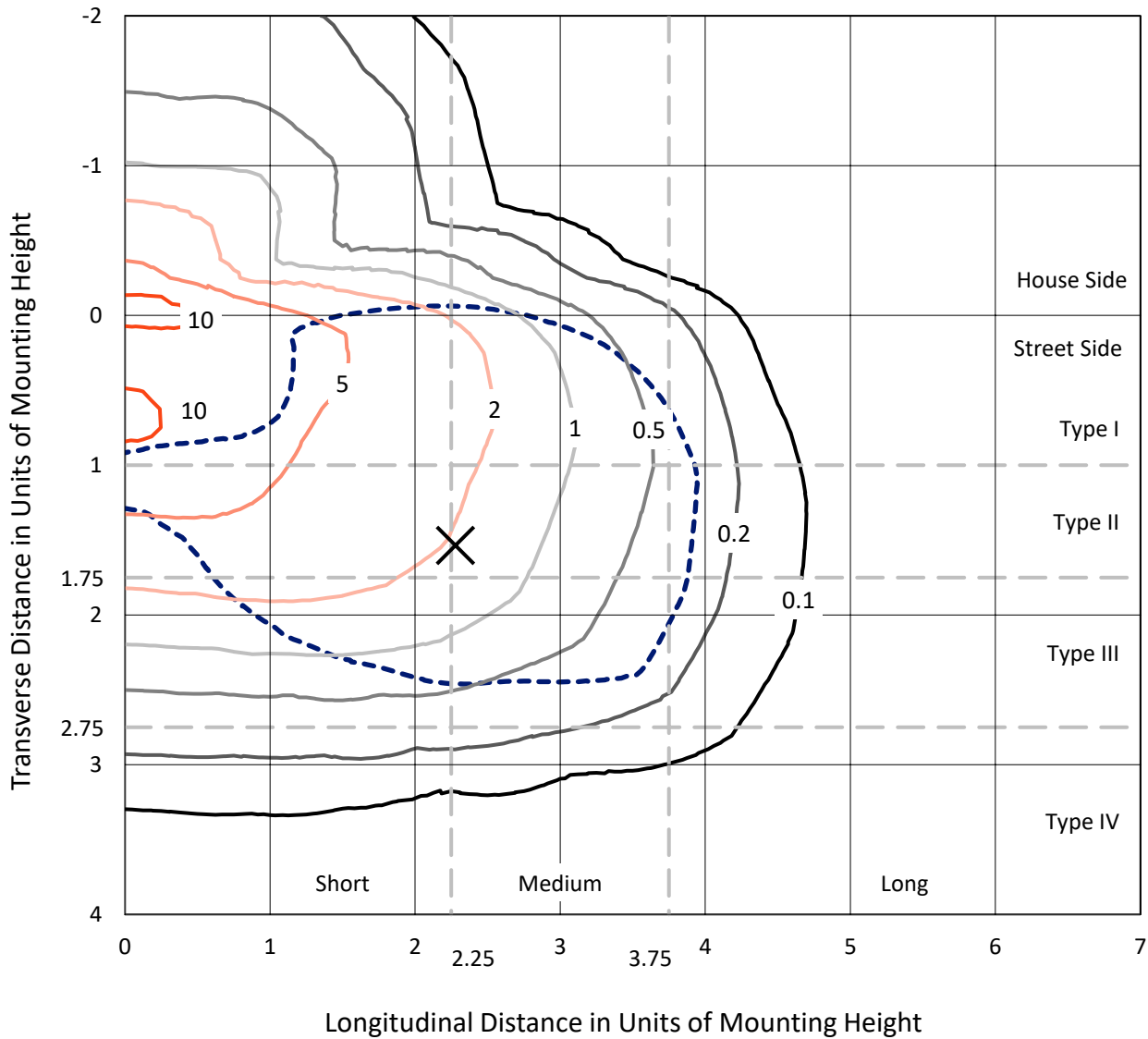
Lumens per Lamp: N/A  
Luminaire Lumens: 6803.7 lumens  
Efficiency: N/A  
Efficacy: 101.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

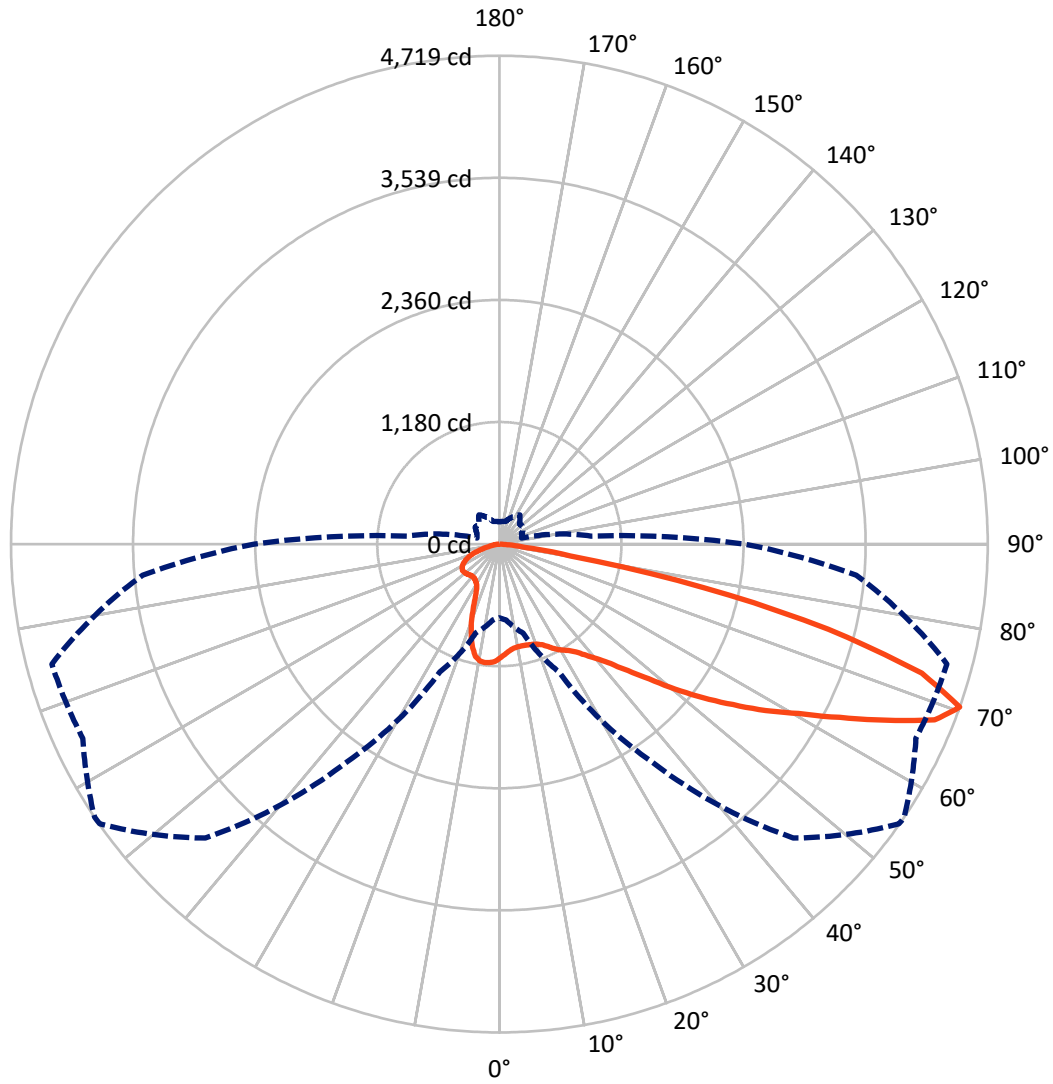
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.4 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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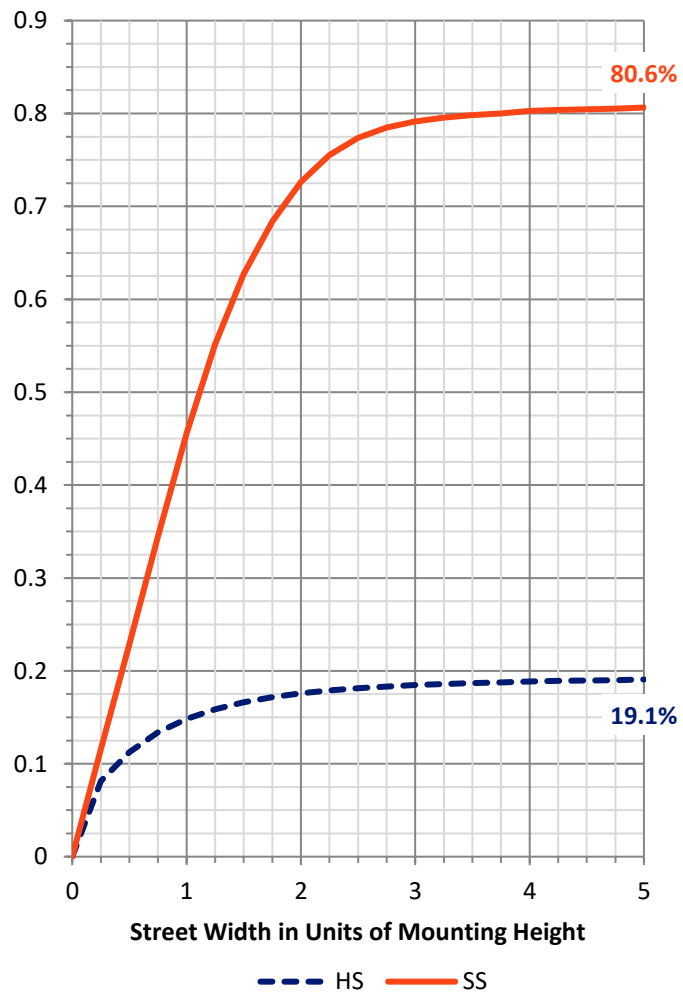
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1308.0	0.0	1308.0
	% Fixture	19.2	0.0	19.2
<b>Street Side</b>	Lumens	5495.7	0.0	5495.7
	% Fixture	80.8	0.0	80.8
<b>Total</b>	Lumens	6803.7	0.0	6803.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.6	1.5
10°-20°	275.4	4.0
20°-30°	455.3	6.7
30°-40°	680.7	10.0
40°-50°	1012.9	14.9
50°-60°	1440.1	21.2
60°-70°	1783.6	26.2
70°-80°	984.8	14.5
80°-90°	69.4	1.0
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°	6803.7	100.0
0°-180°	6803.7	100.0

**Coefficient of Utilization**



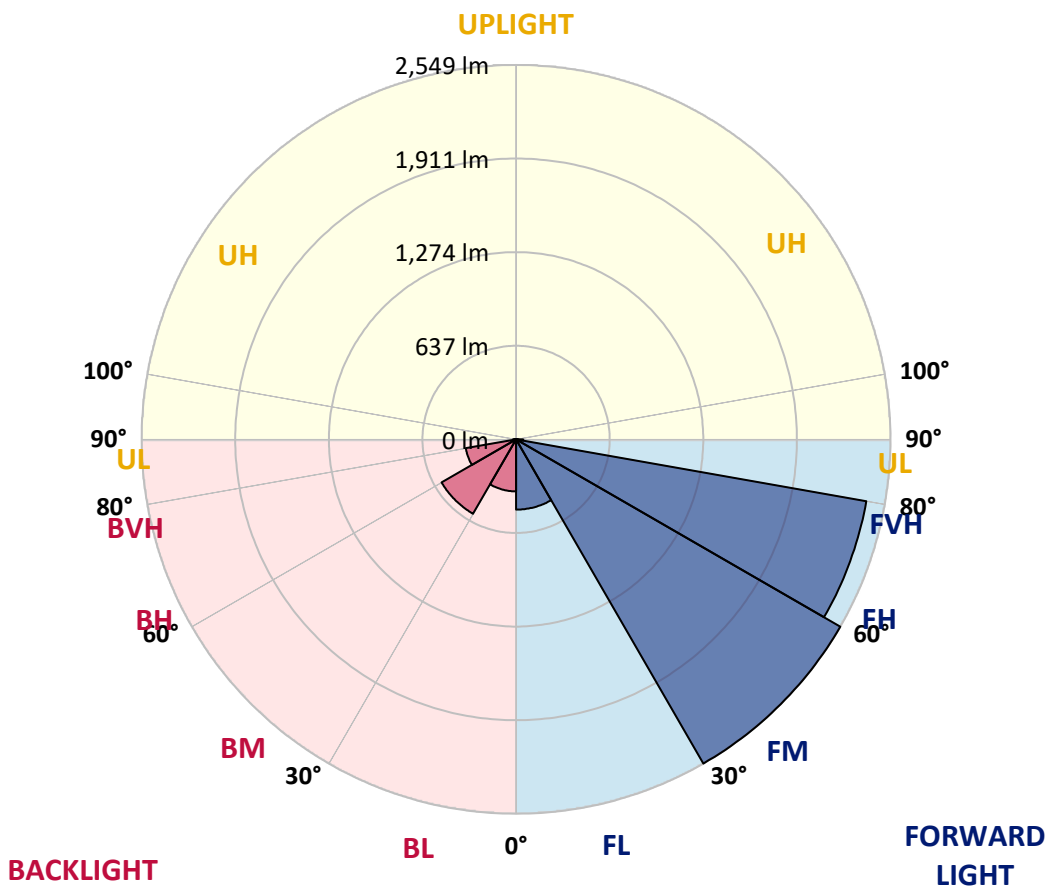
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	478.2	7.0			
FM (30°-60°)	2548.6	37.5			
FH (60°-80°)	2420.8	35.6			G2/5000
FVH (80°-90°)	48.2	0.7			G1/100
BL (0°-30°)	354.1	5.2	B1/500		
BM (30°-60°)	585.1	8.6	B1/1000		
BH (60°-80°)	347.7	5.1	B1/500		G1/500
BVH (80°-90°)	21.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1098.2	1098.2	1098.2	1098.2	1098.2	1098.2	1098.2	1098.2	1098.2	1098.2	1098.2
2.5°	1027.7	1021.9	1028.7	1032.0	1040.6	1053.1	1064.2	1064.6	1070.4	1084.3	1097.7
5°	981.2	978.3	980.2	990.3	999.4	1015.2	1032.0	1033.5	1049.8	1077.1	1104.0
7.5°	945.2	941.3	948.5	961.5	973.0	990.8	1012.8	1014.7	1037.8	1079.0	1120.3
10°	893.4	890.5	903.9	921.2	946.1	975.4	1004.7	1007.1	1037.3	1091.5	1149.1
12.5°	870.8	870.8	876.6	892.9	920.2	959.1	1003.2	1007.1	1045.0	1110.7	1186.0
15°	905.8	908.2	903.4	902.5	913.5	950.4	1005.1	1010.9	1059.4	1130.4	1222.5
17.5°	976.4	978.8	966.3	946.6	935.6	958.6	1012.3	1018.6	1074.7	1152.0	1261.8
20°	1075.2	1078.1	1050.7	1020.5	982.6	982.1	1026.3	1032.0	1094.4	1175.5	1303.6
22.5°	1190.8	1192.7	1158.2	1110.2	1052.2	1025.8	1050.2	1056.0	1119.8	1208.1	1348.7
25°	1324.7	1330.4	1288.7	1219.1	1140.4	1085.7	1090.1	1096.8	1165.4	1251.8	1401.9
27.5°	1467.7	1474.9	1426.9	1350.1	1241.7	1152.0	1141.4	1147.2	1213.8	1278.6	1430.2
30°	1614.0	1619.3	1571.3	1483.5	1350.6	1226.8	1184.6	1187.9	1235.0	1291.6	1459.0
32.5°	1776.6	1772.3	1726.3	1625.0	1476.3	1316.5	1224.9	1223.9	1258.5	1317.5	1500.3
35°	1929.2	1935.4	1886.5	1774.7	1614.5	1427.4	1285.3	1281.5	1308.4	1359.7	1558.3
37.5°	2113.9	2112.0	2053.5	1932.6	1753.1	1533.4	1370.3	1363.5	1373.1	1425.4	1639.4
40°	2245.9	2259.3	2221.4	2108.6	1915.3	1663.9	1469.6	1454.7	1457.1	1506.5	1747.8
42.5°	2353.8	2366.3	2370.1	2298.2	2101.0	1825.1	1593.4	1578.5	1579.9	1650.0	1881.2
45°	2436.8	2453.6	2507.8	2486.7	2310.2	2011.2	1760.8	1745.4	1746.4	1824.1	2042.4
47.5°	2470.9	2489.1	2599.0	2649.4	2532.3	2233.9	1969.0	1946.5	1949.8	2035.7	2226.7
50°	2459.8	2484.3	2633.0	2774.6	2718.4	2460.3	2218.0	2202.2	2189.2	2314.0	2426.7
52.5°	2364.8	2391.7	2629.7	2854.2	2870.5	2674.3	2475.2	2466.1	2463.2	2609.5	2650.3
55°	2085.1	2130.2	2514.1	2875.3	2989.5	2875.8	2754.0	2738.6	2753.5	2926.2	2876.3
57.5°	1930.2	1963.7	2287.6	2851.8	3086.9	3067.7	3032.2	3033.7	3050.5	3270.2	3150.3
60°	1841.9	1881.2	2161.9	2787.5	3180.5	3300.9	3323.5	3323.5	3353.7	3641.1	3428.5
62.5°	1724.8	1764.6	2044.4	2663.8	3266.8	3575.3	3689.5	3688.1	3700.1	4038.8	3700.6
65°	1487.3	1524.3	1808.3	2468.5	3309.1	3877.6	4105.5	4101.2	4077.2	4392.9	3880.5
67.5°	1080.0	1115.0	1385.1	2097.1	3157.0	4121.3	4533.9	4535.9	4392.4	4616.0	3890.1
70°	712.0	736.0	890.5	1362.1	2567.3	4016.3	4713.4	4719.1	4440.9	4476.8	3462.1
72.5°	444.3	461.1	556.1	812.3	1517.1	3179.0	4252.8	4268.6	3995.1	3934.2	2844.6
75°	295.1	306.6	369.9	473.5	701.9	1720.5	3232.8	3283.6	3202.1	3084.0	1982.0
77.5°	177.5	187.1	235.6	300.8	310.9	672.2	1887.0	2018.4	2030.0	1610.1	830.0
80°	81.1	92.1	130.0	171.8	165.5	234.1	665.5	696.2	821.4	511.4	262.0
82.5°	48.0	52.8	86.4	85.4	70.5	113.7	239.4	245.6	208.7	187.1	111.8
85°	19.2	22.5	36.5	32.1	25.9	36.9	90.2	94.5	90.7	81.6	41.3
87.5°	0.0	0.0	0.0	0.0	0.5	1.0	8.2	8.6	12.5	22.5	12.5
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°	1098.2	1098.2	1098.2	1098.2	1098.2	1098.2	1098.2	1098.2	1098.2	1098.2	1098.2
2.5°	1106.4	1103.5	1117.9	1128.9	1133.7	1138.5	1134.2	1132.8	1132.8	1123.2	1118.4
5°	1118.4	1119.8	1139.5	1148.6	1148.6	1144.8	1133.2	1125.1	1122.2	1109.7	1106.4
7.5°	1140.9	1147.2	1165.4	1164.9	1151.5	1130.4	1101.6	1079.5	1059.4	1050.7	1045.4
10°	1177.9	1186.0	1198.5	1178.3	1140.9	1085.3	1024.3	976.4	947.6	924.5	924.5
12.5°	1220.1	1227.8	1225.4	1178.8	1101.6	997.5	909.7	854.5	814.2	793.1	793.1
15°	1262.3	1268.5	1242.6	1156.8	1019.5	880.9	784.9	718.7	683.7	664.0	664.0
17.5°	1305.0	1304.5	1249.8	1105.9	912.5	751.8	657.8	606.4	594.5	591.1	590.6
20°	1346.3	1335.2	1240.7	1021.0	788.3	621.8	562.3	565.7	583.4	591.1	592.1
22.5°	1392.8	1365.5	1213.8	912.5	647.2	531.6	535.4	563.3	589.2	600.7	602.1
25°	1440.3	1391.4	1168.7	785.4	529.2	498.5	528.2	559.4	588.7	603.6	605.0
27.5°	1459.5	1391.4	1092.0	638.1	466.3	484.6	517.2	547.4	578.1	595.4	598.8
30°	1475.3	1379.4	984.5	505.2	440.4	471.1	499.5	527.3	557.5	578.6	582.5
32.5°	1497.4	1368.8	854.5	424.6	428.4	458.2	477.9	501.4	528.7	542.6	541.2
35°	1523.3	1352.5	697.6	386.2	418.4	447.2	461.1	475.0	462.5	462.0	463.5
37.5°	1560.3	1338.1	560.9	369.0	411.7	439.5	451.0	421.2	404.0	396.8	393.9
40°	1613.5	1332.4	442.4	358.9	410.7	439.0	430.8	384.8	361.3	336.3	335.8
42.5°	1680.7	1328.0	365.6	354.1	414.1	450.0	403.0	360.8	312.3	301.3	300.3
45°	1767.0	1321.3	327.2	353.1	422.2	458.7	400.1	327.7	294.6	289.8	289.8
47.5°	1871.2	1310.8	309.9	353.1	431.3	454.8	391.5	320.5	286.4	291.7	295.1
50°	1990.6	1297.3	300.8	352.2	440.4	454.8	373.3	319.1	284.5	311.9	322.9
52.5°	2118.2	1282.0	294.6	348.3	446.7	455.3	374.2	323.9	286.4	316.7	325.8
55°	2259.3	1279.6	286.0	340.2	448.6	442.8	376.6	334.4	289.3	286.9	287.4
57.5°	2437.3	1308.4	279.7	328.2	440.9	417.4	381.4	342.1	286.0	286.4	289.8
60°	2623.4	1362.6	285.0	316.7	425.1	393.4	384.8	338.2	269.6	262.0	262.9
62.5°	2781.8	1403.8	289.3	311.4	402.1	372.3	381.4	329.6	260.5	258.6	262.9
65°	2848.0	1369.8	278.8	300.3	368.5	346.4	374.2	318.6	252.8	245.6	246.1
67.5°	2774.6	1210.0	258.1	275.9	330.6	313.3	362.7	304.2	242.3	233.7	231.7
70°	2370.1	889.0	222.6	237.0	284.5	274.4	345.0	285.5	225.5	219.3	214.9
72.5°	1910.0	629.5	184.7	188.6	223.1	231.3	314.3	262.0	206.3	188.6	182.3
75°	1329.5	395.3	154.0	150.2	161.2	176.6	245.2	217.3	178.0	159.3	153.5
77.5°	571.9	202.9	120.4	118.5	107.5	122.3	188.1	181.4	149.2	127.6	124.3
80°	191.4	117.5	86.8	83.5	71.5	85.9	132.4	144.9	117.1	94.5	88.8
82.5°	96.0	68.1	55.2	49.9	48.0	54.2	78.2	90.2	81.1	65.3	55.2
85°	47.0	38.9	30.2	29.7	24.9	23.5	32.6	38.4	36.5	26.9	25.4
87.5°	17.3	15.4	9.6	7.7	4.8	3.4	1.9	1.9	1.4	1.4	1.4
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)