

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: P631349

Luminaire Tested: GWS-SA1F-740-U-T3-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631349  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1F-740-U-T3-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: (16) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

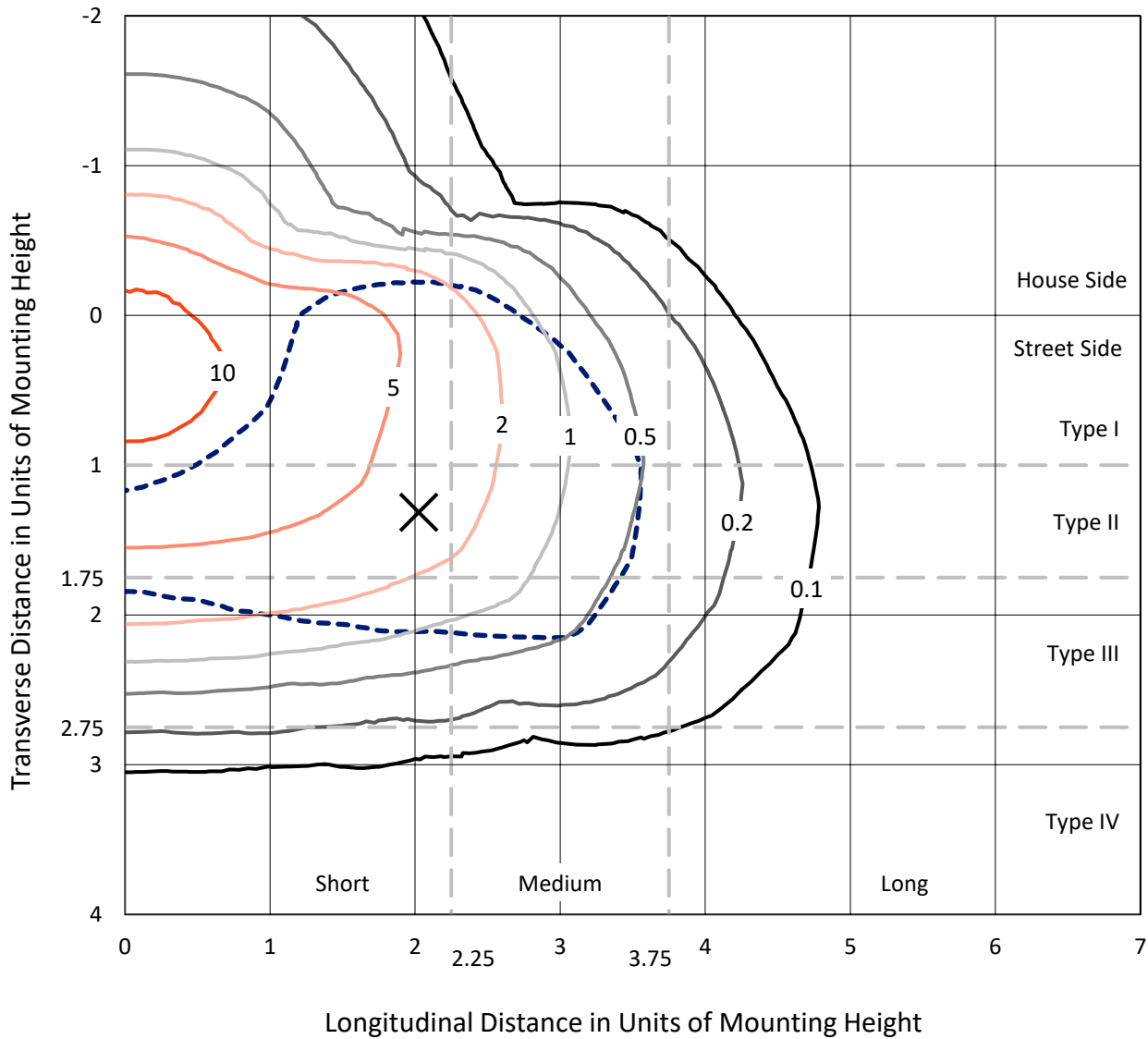
Lumens per Lamp: N/A  
Luminaire Lumens: 8430.6 lumens  
Efficiency: N/A  
Efficacy: 125.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

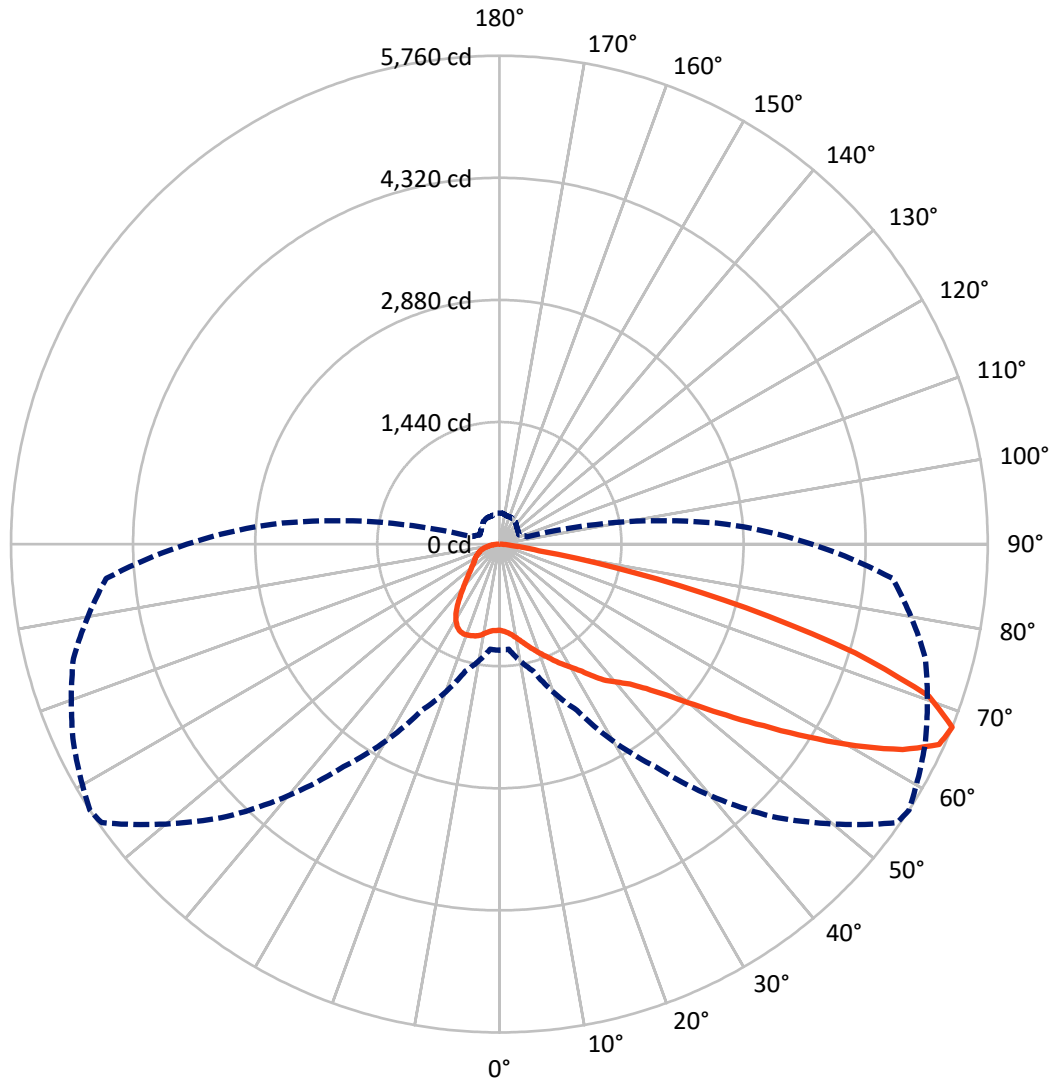
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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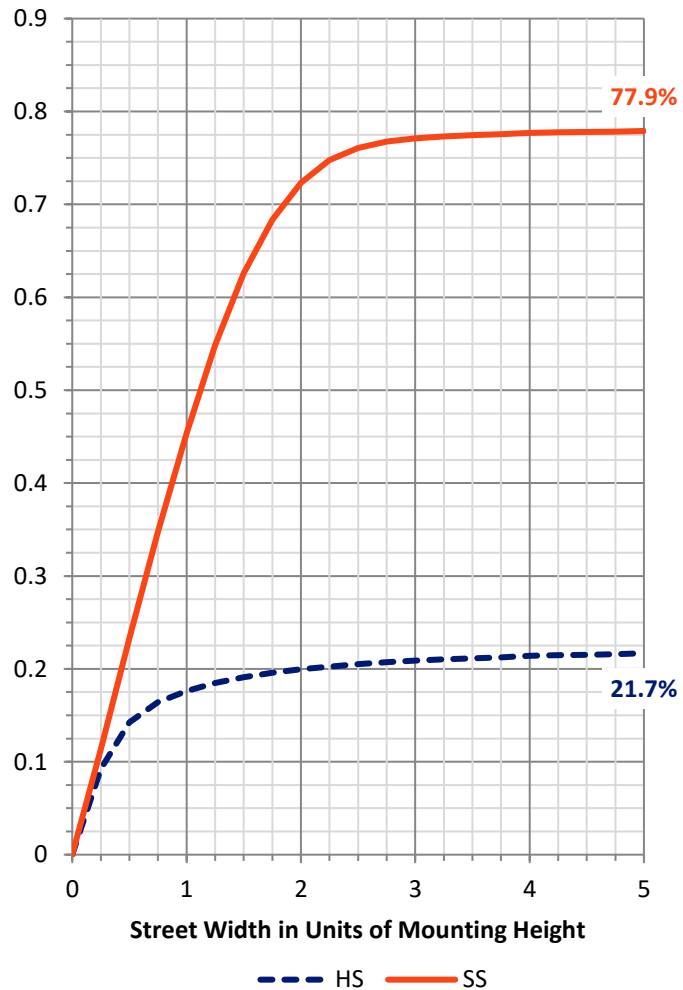
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1853.6	0.0	1853.6
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	6577.0	0.0	6577.0
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	8430.6	0.0	8430.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.7	1.2
10°-20°	333.5	4.0
20°-30°	594.6	7.1
30°-40°	864.5	10.3
40°-50°	1251.2	14.8
50°-60°	1958.1	23.2
60°-70°	2284.3	27.1
70°-80°	953.6	11.3
80°-90°	90.0	1.1
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°	8430.6	100.0
0°-180°	8430.6	100.0

**Coefficient of Utilization**



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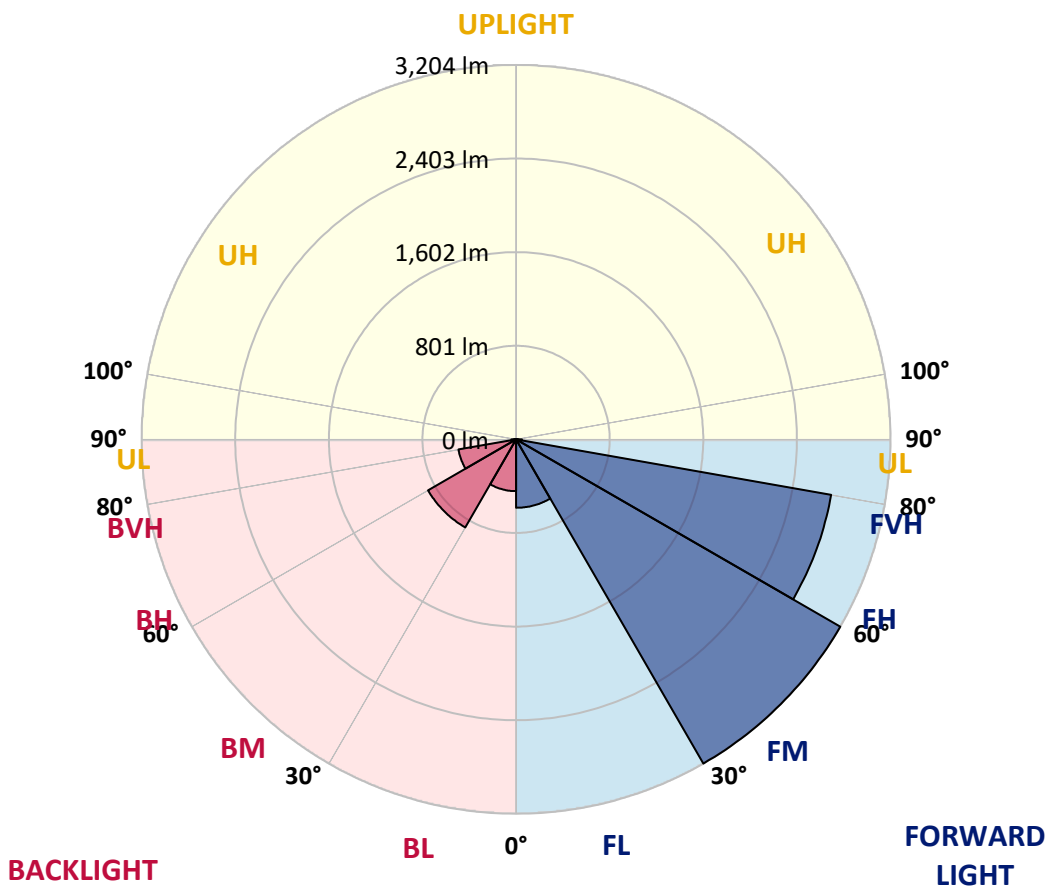
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	585.6	6.9			
FM (30°-60°)	3203.8	38.0			
FH (60°-80°)	2737.6	32.5			G2/5000
FVH (80°-90°)	50.1	0.6			G1/100
BL (0°-30°)	443.3	5.3	B1/500		
BM (30°-60°)	870.1	10.3	B1/1000		
BH (60°-80°)	500.3	5.9	B2/1000		G2/1000
BVH (80°-90°)	39.9	0.5			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1015.8	1015.8	1015.8	1015.8	1015.8	1015.8	1015.8	1015.8	1015.8	1015.8	1015.8
2.5°	1030.3	1029.1	1028.5	1032.1	1030.9	1030.3	1030.3	1029.7	1028.5	1023.7	1017.0
5°	1058.7	1056.3	1053.9	1056.9	1054.5	1052.1	1051.5	1050.3	1046.0	1038.8	1028.5
7.5°	1088.3	1085.9	1086.5	1088.3	1086.5	1085.3	1083.5	1082.3	1075.6	1064.1	1050.3
10°	1130.0	1130.0	1131.2	1133.0	1133.6	1131.8	1128.2	1126.4	1118.5	1104.0	1084.7
12.5°	1190.4	1189.2	1189.2	1188.0	1189.8	1188.0	1184.3	1181.3	1171.6	1152.9	1125.1
15°	1270.1	1265.3	1261.0	1253.2	1250.8	1244.1	1245.3	1243.5	1234.5	1209.1	1174.1
17.5°	1355.2	1354.6	1348.0	1332.3	1316.6	1305.7	1308.1	1307.5	1302.7	1268.3	1223.6
20°	1430.1	1433.2	1427.1	1415.0	1393.9	1373.4	1372.2	1375.2	1369.1	1334.7	1272.5
22.5°	1514.1	1511.7	1505.6	1489.9	1474.2	1452.5	1445.2	1442.8	1440.4	1401.1	1322.6
25°	1593.8	1601.0	1593.2	1578.7	1554.5	1531.0	1525.0	1527.4	1520.7	1468.8	1376.4
27.5°	1694.7	1697.7	1692.8	1672.9	1652.4	1619.2	1607.7	1607.7	1605.3	1532.2	1418.7
30°	1802.2	1810.6	1802.2	1785.9	1764.7	1717.0	1692.2	1689.8	1682.6	1597.4	1468.2
32.5°	1910.3	1916.3	1910.3	1894.6	1870.4	1828.7	1793.1	1787.7	1778.0	1668.7	1518.9
35°	2006.3	2011.7	2010.5	2014.1	1994.2	1941.7	1919.9	1917.5	1892.1	1761.7	1587.8
37.5°	2111.4	2118.0	2109.0	2116.2	2108.4	2058.8	2052.2	2040.1	2003.9	1849.3	1660.2
40°	2231.0	2237.0	2222.5	2225.5	2216.5	2188.7	2154.9	2138.6	2084.8	1944.1	1774.4
42.5°	2359.0	2372.9	2379.5	2374.1	2353.0	2337.3	2278.1	2257.5	2212.8	2115.0	1962.2
45°	2544.4	2564.9	2574.6	2560.7	2551.7	2529.3	2456.8	2432.1	2408.5	2356.0	2224.3
47.5°	2744.3	2763.0	2793.8	2799.9	2807.1	2790.2	2688.1	2664.0	2668.2	2662.2	2546.8
50°	2903.8	2919.5	2988.9	3063.2	3124.8	3129.6	2999.2	2973.2	2996.2	3015.5	2935.2
52.5°	3019.7	3033.6	3125.4	3278.8	3418.3	3521.6	3380.9	3351.3	3370.0	3413.5	3376.6
55°	3113.9	3133.2	3229.3	3464.8	3746.9	3909.9	3819.9	3782.5	3774.6	3828.4	3849.5
57.5°	3163.4	3169.5	3304.2	3610.4	3987.8	4291.0	4330.3	4288.0	4213.1	4242.7	4352.6
60°	3050.5	3060.8	3245.0	3647.8	4178.1	4669.1	4866.0	4830.9	4671.5	4687.8	4809.2
62.5°	2738.3	2752.8	2974.4	3469.6	4193.8	4921.5	5360.6	5338.2	5124.4	5036.3	5072.5
65°	2196.5	2201.4	2430.9	3028.8	3881.5	4952.9	5705.4	5700.0	5440.9	5234.4	5079.1
67.5°	1252.6	1244.1	1550.9	2160.3	3203.3	4544.7	5727.8	5759.8	5543.6	5201.7	4656.4
70°	542.9	544.2	685.5	1066.0	2073.3	3673.2	5320.1	5375.1	5246.4	4658.8	3704.6
72.5°	251.2	254.9	315.9	461.4	885.4	2278.7	4338.1	4387.6	4277.1	3728.7	2695.4
75°	177.6	180.6	210.8	264.5	407.1	887.8	2901.9	3005.8	3059.6	2789.0	1776.2
77.5°	134.7	138.9	154.0	183.6	251.2	314.7	1388.5	1636.1	1948.9	1735.1	915.0
80°	85.8	85.8	102.1	122.6	153.4	163.7	401.0	475.3	953.6	715.1	359.3
82.5°	58.0	59.8	69.5	77.9	88.2	93.0	172.1	183.6	275.4	243.4	148.0
85°	30.8	32.0	36.2	35.6	42.3	36.8	72.5	71.9	100.9	110.5	56.2
87.5°	0.0	0.0	0.6	0.6	1.2	1.8	7.9	8.5	21.1	33.8	18.7
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°	1015.8	1015.8	1015.8	1015.8	1015.8	1015.8	1015.8	1015.8	1015.8	1015.8	1015.8
2.5°	1020.7	1013.4	1017.0	1015.8	1019.5	1019.5	1012.8	1011.0	1011.6	1004.4	1001.9
5°	1029.7	1021.3	1023.1	1020.7	1024.3	1027.3	1024.3	1024.3	1027.9	1022.5	1019.5
7.5°	1050.3	1040.6	1040.6	1037.6	1041.8	1044.2	1041.8	1045.4	1052.1	1046.6	1043.6
10°	1082.9	1071.4	1072.0	1068.4	1070.2	1069.0	1059.3	1056.3	1058.1	1053.3	1050.9
12.5°	1125.1	1109.4	1109.4	1102.2	1098.0	1085.3	1065.4	1058.1	1059.3	1055.1	1053.3
15°	1165.6	1151.1	1148.1	1133.6	1114.3	1090.7	1072.6	1067.8	1069.0	1064.7	1061.7
17.5°	1213.3	1194.6	1183.7	1157.2	1121.5	1097.4	1079.2	1067.8	1058.1	1048.4	1046.0
20°	1257.4	1233.9	1213.9	1172.9	1129.4	1096.2	1062.3	1033.9	1010.4	997.7	994.7
22.5°	1302.7	1272.5	1237.5	1183.7	1128.8	1074.4	1012.2	969.3	934.3	915.6	919.2
25°	1345.6	1307.5	1259.8	1194.0	1109.4	1026.1	941.5	877.5	837.7	823.2	818.9
27.5°	1381.2	1334.1	1280.4	1189.2	1069.6	956.6	844.9	773.6	735.0	718.7	714.5
30°	1421.1	1367.9	1309.9	1166.8	1006.8	859.4	735.6	677.6	649.8	634.1	634.7
32.5°	1467.0	1411.4	1351.6	1123.9	926.4	754.3	645.6	605.8	583.4	567.7	565.3
35°	1528.6	1473.6	1379.4	1059.3	824.4	657.7	584.0	551.4	523.6	503.1	498.9
37.5°	1604.7	1567.2	1382.4	973.0	715.1	591.3	539.9	504.9	471.1	443.9	440.9
40°	1735.1	1692.2	1357.7	864.8	622.1	548.4	503.1	462.6	423.4	393.2	388.9
42.5°	1921.1	1833.0	1304.5	742.8	552.0	514.6	468.1	416.7	376.9	355.7	352.7
45°	2157.9	1990.0	1224.8	628.1	500.1	481.3	431.2	377.5	356.3	341.2	338.2
47.5°	2447.8	2173.0	1133.0	538.7	459.6	451.1	393.8	364.2	345.5	332.8	329.8
50°	2794.4	2406.1	1057.5	468.7	423.4	416.1	381.7	356.3	341.2	331.0	328.5
52.5°	3190.0	2665.2	1020.7	418.5	392.0	384.7	377.5	354.5	341.8	334.0	331.0
55°	3600.7	2938.2	986.2	379.9	365.4	369.6	378.1	360.6	350.9	340.6	337.6
57.5°	3997.5	3194.2	901.7	349.7	346.1	362.4	381.1	366.6	355.1	344.9	341.2
60°	4271.1	3334.4	758.6	325.5	331.6	353.3	373.2	357.5	343.0	338.8	337.0
62.5°	4344.8	3317.5	588.8	300.8	314.0	333.4	352.7	342.4	327.3	334.0	334.6
65°	4172.6	3136.3	442.1	276.6	291.1	307.4	331.6	327.3	321.9	340.0	340.6
67.5°	3685.3	2691.2	337.0	255.5	267.5	287.5	324.9	342.4	343.6	366.6	364.2
70°	2788.4	2010.5	263.9	235.5	249.4	287.5	346.1	353.9	339.4	360.6	355.7
72.5°	1927.8	1326.9	224.7	218.0	227.1	274.2	345.5	345.5	329.8	329.8	320.7
75°	1197.6	780.3	195.7	195.7	195.7	239.8	335.8	318.3	290.5	277.8	270.6
77.5°	591.3	379.3	164.3	170.3	163.7	200.5	274.2	260.3	243.4	230.1	225.3
80°	252.4	189.6	132.9	139.5	131.7	151.0	217.4	214.4	198.1	180.6	175.1
82.5°	116.0	97.8	106.3	109.3	96.0	113.5	158.8	158.8	149.8	125.6	116.6
85°	49.5	51.9	73.7	73.7	60.4	64.0	85.2	80.9	72.5	59.2	54.4
87.5°	16.9	25.4	37.4	32.6	12.7	5.4	3.0	1.2	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)