

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: P631355

Luminaire Tested: GWS-SA1F-740-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631355
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-740-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8137.7 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

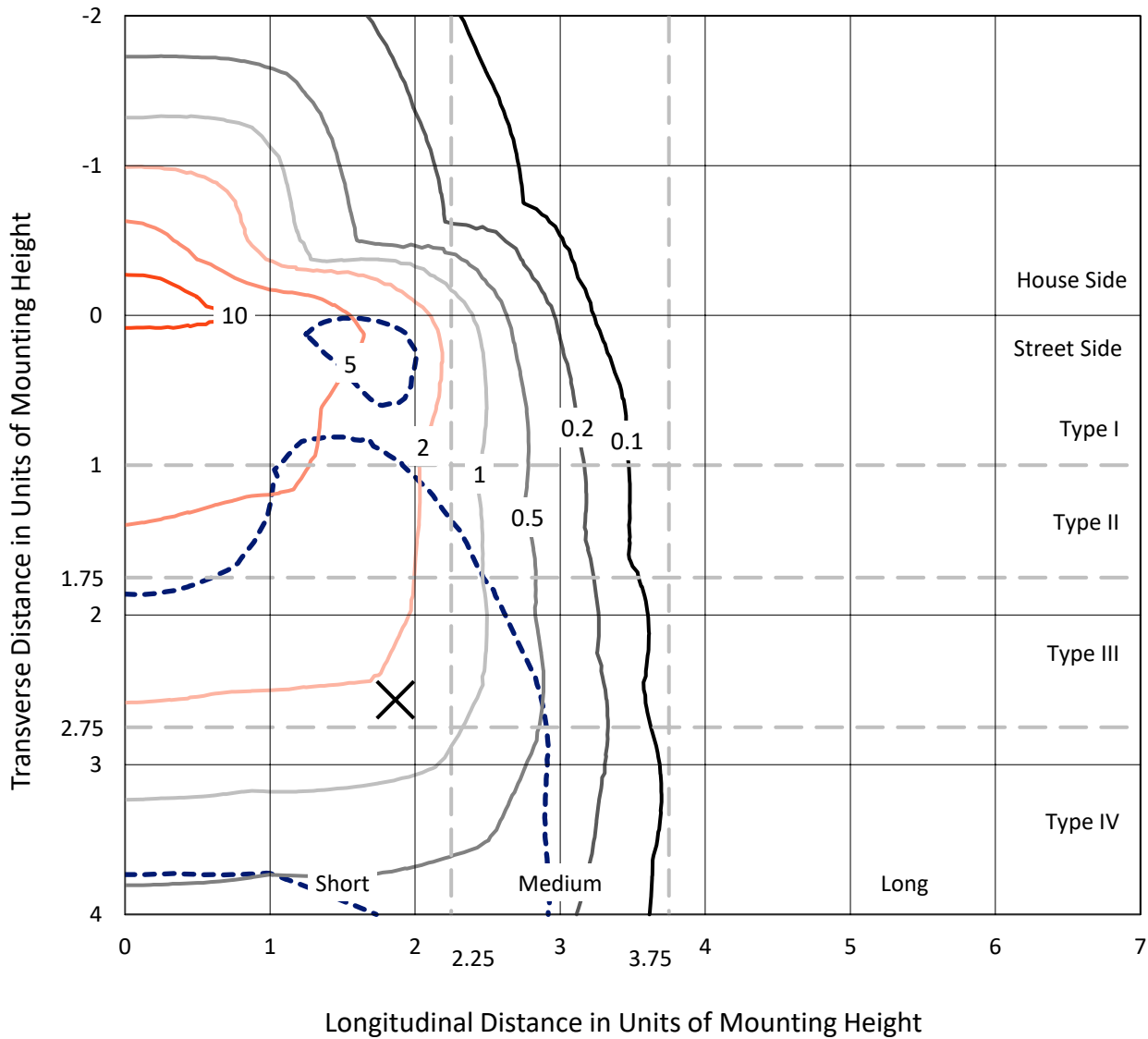
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

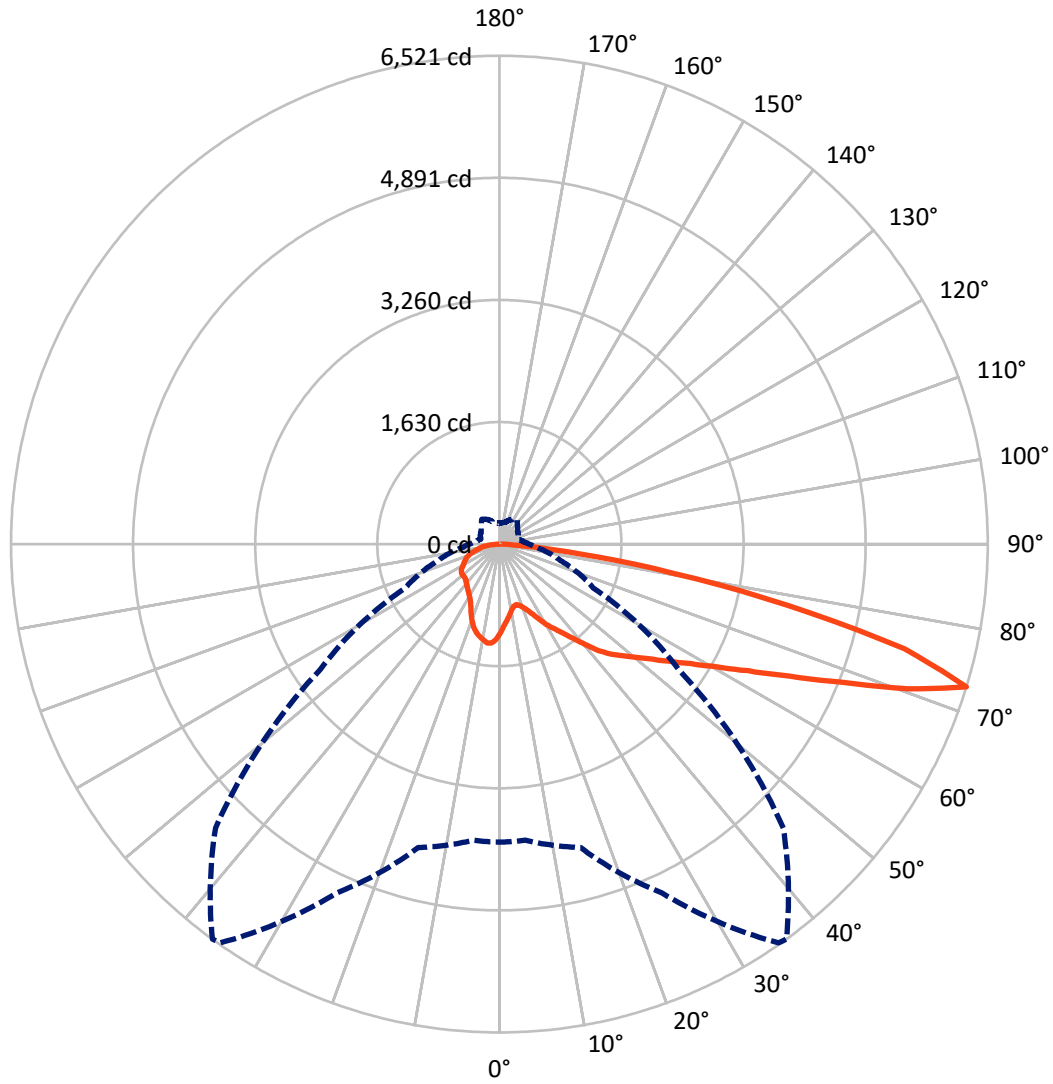
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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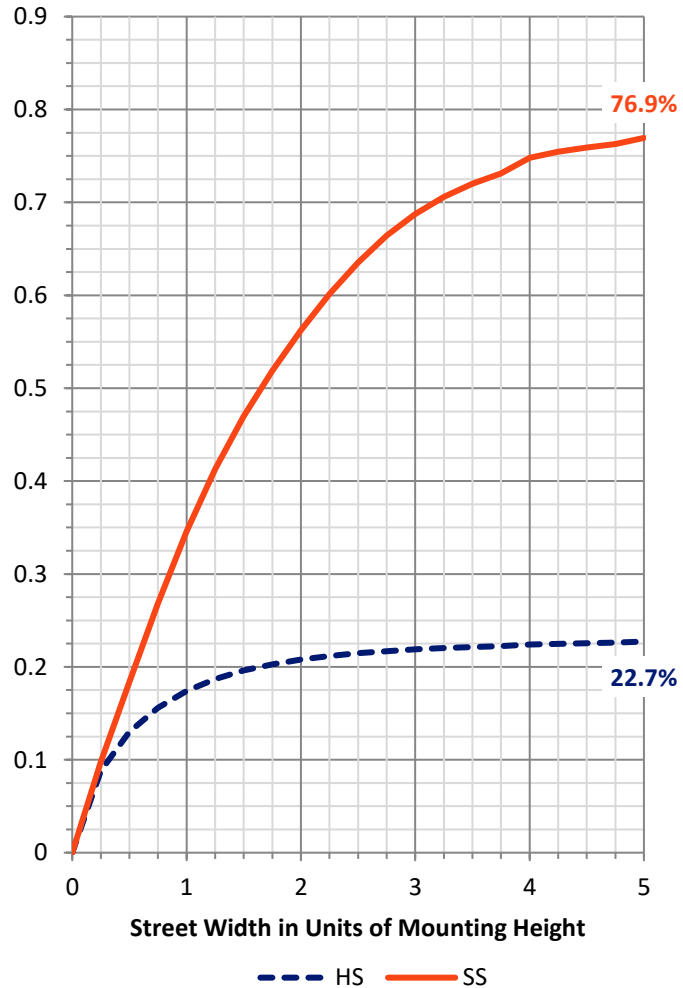
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1876.1	0.0	1876.1
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	6261.6	0.0	6261.6
	% Fixture	76.9	0.0	76.9
Total	Lumens	8137.7	0.0	8137.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.3	1.4
10°-20°	314.1	3.9
20°-30°	520.2	6.4
30°-40°	779.0	9.6
40°-50°	1136.5	14.0
50°-60°	1617.6	19.9
60°-70°	2043.7	25.1
70°-80°	1456.3	17.9
80°-90°	159.0	2.0
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°	8137.7	100.0
0°-180°	8137.7	100.0

Coefficient of Utilization



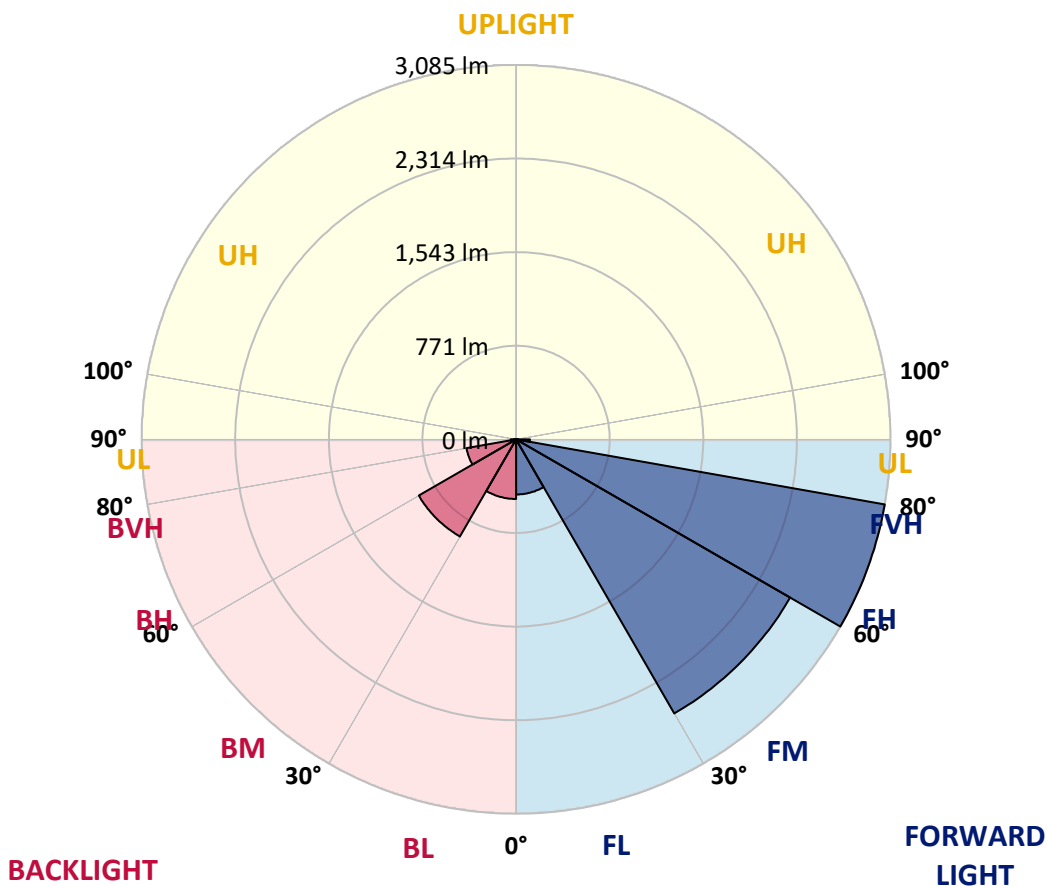
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	454.3	5.6			
FM (30°-60°)	2607.9	32.0			
FH (60°-80°)	3085.3	37.9			G2/5000
FVH (80°-90°)	114.1	1.4			G2/225
BL (0°-30°)	491.3	6.0	B1/500		
BM (30°-60°)	925.2	11.4	B1/1000		
BH (60°-80°)	414.8	5.1	B1/500		G1/500
BVH (80°-90°)	44.9	0.6			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0
2.5°	1086.5	1084.7	1081.1	1091.9	1102.8	1101.6	1116.7	1131.2	1146.9	1163.2	1184.9
5°	999.5	998.3	995.3	1011.6	1027.9	1027.3	1052.1	1075.6	1107.6	1142.7	1186.2
7.5°	912.6	909.5	913.8	934.3	957.3	959.7	993.5	1032.2	1078.7	1131.2	1192.8
10°	835.9	835.3	837.1	860.0	894.4	896.9	940.3	994.1	1055.7	1125.8	1207.9
12.5°	815.9	814.7	809.9	821.4	847.3	851.0	898.7	964.5	1040.0	1128.8	1228.4
15°	848.5	845.5	828.6	823.2	835.9	838.9	879.4	947.0	1030.9	1134.2	1254.4
17.5°	904.7	902.9	870.9	848.5	857.0	859.4	889.6	944.0	1028.5	1145.1	1286.4
20°	986.9	979.0	928.9	895.1	895.1	898.7	916.8	957.3	1031.5	1158.4	1322.6
22.5°	1095.6	1079.9	1009.2	963.3	951.2	956.1	963.9	990.5	1044.2	1180.7	1367.9
25°	1217.6	1203.1	1119.1	1054.5	1037.6	1039.4	1032.8	1037.6	1072.0	1211.5	1424.1
27.5°	1347.4	1337.7	1248.4	1166.2	1139.7	1139.7	1116.1	1104.6	1110.7	1246.6	1486.9
30°	1463.4	1450.1	1374.6	1284.6	1249.6	1249.6	1204.9	1180.1	1165.6	1289.4	1570.9
32.5°	1524.4	1516.5	1466.4	1397.5	1354.7	1348.0	1309.4	1280.4	1246.6	1352.8	1684.4
35°	1604.1	1602.3	1572.1	1518.3	1464.0	1454.3	1427.7	1404.8	1346.2	1432.0	1835.4
37.5°	1704.3	1701.3	1696.5	1664.5	1599.3	1597.4	1573.9	1546.1	1470.0	1546.1	2018.4
40°	1816.7	1811.2	1805.2	1804.6	1765.3	1758.7	1756.9	1725.5	1619.2	1683.8	2209.2
42.5°	1971.3	1952.6	1895.8	1921.2	1950.2	1944.1	1967.1	1920.0	1805.2	1847.5	2389.8
45°	2161.5	2115.6	2003.3	2010.5	2083.6	2095.7	2175.4	2164.0	2009.9	2036.5	2580.1
47.5°	2275.7	2235.8	2131.3	2125.3	2216.5	2231.6	2404.9	2426.7	2230.4	2264.2	2815.0
50°	2369.3	2341.5	2255.8	2264.2	2360.8	2375.9	2632.6	2679.1	2438.1	2497.3	3088.0
52.5°	2482.2	2442.4	2375.9	2415.8	2534.2	2552.3	2885.7	2935.8	2625.4	2753.4	3370.6
55°	2545.6	2529.3	2530.5	2591.5	2740.1	2764.9	3150.8	3142.4	2796.9	2972.6	3583.2
57.5°	2691.8	2685.8	2741.3	2764.3	2980.5	3012.5	3415.9	3343.5	2952.7	3142.4	3685.3
60°	2949.7	2934.6	2982.9	3017.9	3277.6	3322.9	3711.9	3540.4	3058.4	3268.6	3650.9
62.5°	3312.1	3293.3	3295.1	3350.7	3675.6	3723.4	4041.0	3704.6	3091.0	3287.9	3432.9
65°	3762.6	3735.4	3704.6	3780.1	4204.1	4244.0	4399.2	3824.2	3013.1	3101.9	2977.5
67.5°	4237.9	4215.6	4179.3	4337.6	4888.4	4912.5	4800.8	3813.9	2766.1	2604.2	2088.5
70°	4265.7	4271.1	4442.7	5015.2	5781.6	5787.7	5180.7	3607.4	2240.0	1688.0	1040.6
72.5°	3979.4	3970.4	4193.8	5139.0	6500.3	6520.8	5360.1	2922.5	1384.3	841.9	488.0
75°	3232.3	3248.0	3483.0	4496.4	5571.4	5589.6	4369.6	1723.1	657.7	411.9	312.2
77.5°	1391.5	1479.1	1942.3	3167.7	3990.3	3934.1	2252.1	698.2	350.9	293.5	239.2
80°	401.6	436.1	692.1	1506.3	2391.0	2348.8	891.4	261.5	244.6	220.4	171.5
82.5°	129.8	143.7	253.7	599.7	1071.4	1070.2	338.2	154.6	160.0	149.8	110.5
85°	36.2	41.7	77.9	181.8	331.6	324.9	97.8	73.1	85.2	86.4	55.0
87.5°	0.0	0.0	0.6	1.2	1.2	1.2	2.4	10.9	24.8	31.4	22.3
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°	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0
2.5°	1198.2	1196.4	1221.2	1240.5	1258.6	1270.7	1274.3	1276.7	1281.6	1284.0	1281.6
5°	1206.7	1215.8	1256.8	1287.0	1311.2	1325.7	1326.3	1325.1	1328.7	1325.7	1323.9
7.5°	1224.8	1242.3	1294.3	1326.3	1342.0	1342.6	1328.1	1311.2	1302.7	1295.5	1293.1
10°	1249.0	1274.9	1331.7	1352.8	1348.0	1325.7	1293.7	1267.1	1252.0	1241.1	1238.7
12.5°	1282.2	1311.2	1364.9	1364.3	1334.1	1294.3	1256.8	1224.8	1203.1	1190.4	1186.2
15°	1313.6	1350.4	1389.1	1360.7	1313.0	1264.7	1216.4	1173.5	1144.5	1124.6	1120.9
17.5°	1352.2	1391.5	1406.6	1349.2	1286.4	1224.2	1159.6	1103.4	1064.2	1040.6	1038.8
20°	1396.9	1432.0	1415.1	1329.3	1252.0	1170.5	1082.9	1020.1	977.8	954.8	956.7
22.5°	1448.9	1474.2	1417.5	1302.1	1204.3	1094.4	996.5	936.1	907.7	895.7	896.3
25°	1504.4	1520.7	1413.2	1265.3	1131.2	1001.3	907.7	880.0	877.5	874.5	875.7
27.5°	1570.3	1566.6	1400.6	1213.3	1032.8	893.2	845.5	852.8	862.4	861.2	862.4
30°	1658.4	1624.0	1384.3	1141.5	915.6	802.6	808.7	829.2	841.9	843.1	846.7
32.5°	1759.3	1687.4	1358.3	1043.6	803.9	751.9	774.3	799.0	814.1	817.1	822.0
35°	1879.5	1759.9	1312.4	921.6	723.5	721.7	742.3	759.2	775.5	776.7	776.7
37.5°	2017.8	1832.4	1239.3	786.9	674.0	695.8	715.1	718.7	722.9	719.3	721.1
40°	2144.6	1902.4	1135.4	664.3	633.5	672.8	689.1	677.0	663.7	654.7	656.5
42.5°	2250.9	1950.2	997.7	578.6	592.5	652.3	664.9	640.2	614.2	597.3	599.7
45°	2370.5	1994.2	835.9	520.6	557.4	637.8	646.2	614.2	581.0	555.6	552.0
47.5°	2535.4	2084.2	692.1	480.1	532.7	629.9	643.8	600.3	556.8	518.8	514.6
50°	2738.9	2211.7	571.9	453.6	521.2	625.7	643.2	585.2	533.3	488.6	485.6
52.5°	2961.2	2336.1	483.2	433.0	509.7	613.0	640.2	568.3	508.5	460.2	456.6
55°	3109.1	2385.0	423.4	413.7	491.0	593.1	628.1	552.0	471.1	427.0	421.6
57.5°	3152.6	2322.2	381.7	396.2	466.9	565.3	605.2	517.6	448.1	413.1	408.9
60°	3077.7	2164.0	355.7	381.7	440.3	529.7	565.3	497.7	430.0	398.6	395.6
62.5°	2866.3	1920.0	335.8	366.6	413.1	492.2	539.9	473.5	410.1	385.3	381.1
65°	2441.2	1574.5	319.5	350.9	387.1	456.6	512.1	449.3	388.3	369.6	364.8
67.5°	1707.4	1105.8	302.0	332.2	361.2	422.2	483.2	427.0	366.0	352.1	347.3
70°	834.7	586.4	280.8	310.4	333.4	387.1	454.2	399.8	336.4	328.5	321.9
72.5°	397.4	327.9	256.1	280.8	295.3	340.6	405.9	360.6	301.4	284.5	273.0
75°	266.3	233.1	223.5	245.8	249.4	285.7	347.9	311.0	265.7	246.4	236.7
77.5°	201.7	178.2	187.8	207.8	200.5	234.9	286.3	277.2	239.8	222.3	217.4
80°	141.9	129.8	149.2	161.3	155.8	199.9	257.9	237.4	197.5	178.2	174.5
82.5°	89.4	87.0	109.9	111.7	113.5	158.2	212.0	186.6	153.4	126.2	117.2
85°	44.7	49.5	65.8	65.8	65.2	81.5	120.8	105.1	82.7	65.8	64.0
87.5°	15.1	21.1	28.4	23.0	17.5	13.9	15.7	19.3	20.5	19.9	19.9
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)