

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: P630251

Luminaire Tested: GWS-SA1D-730-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630251
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1D-730-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4841.1 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

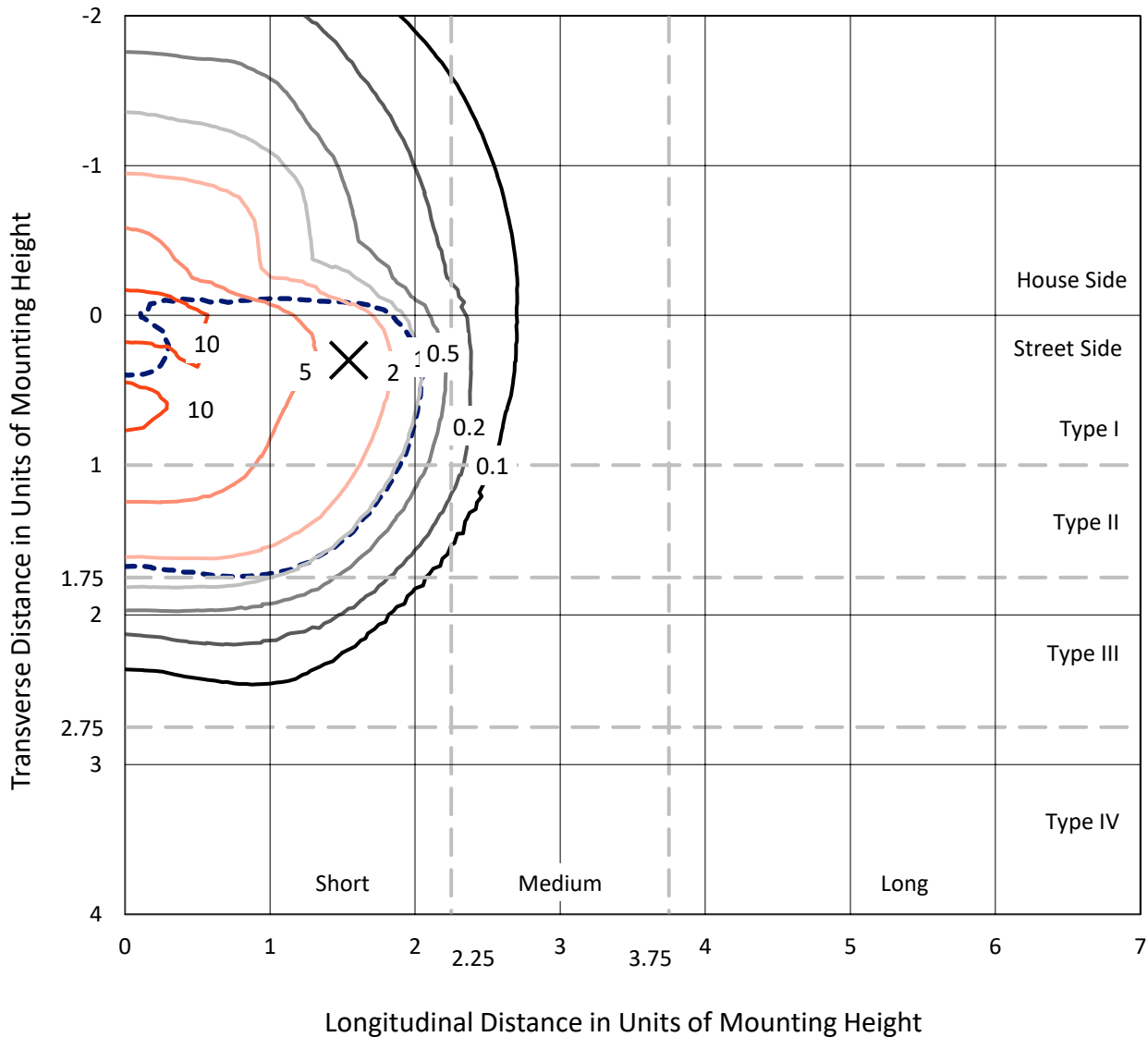
Input Watts (W): 44.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

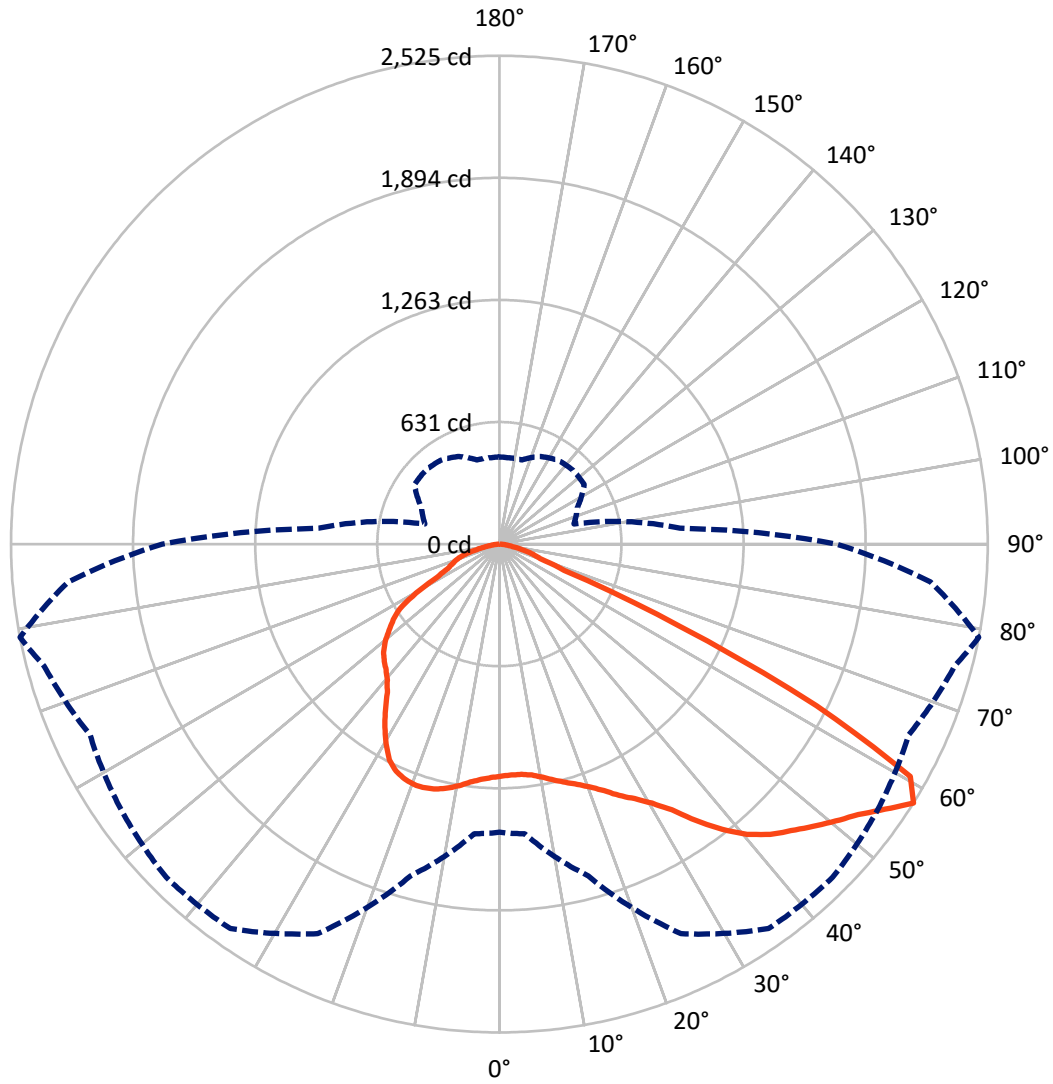
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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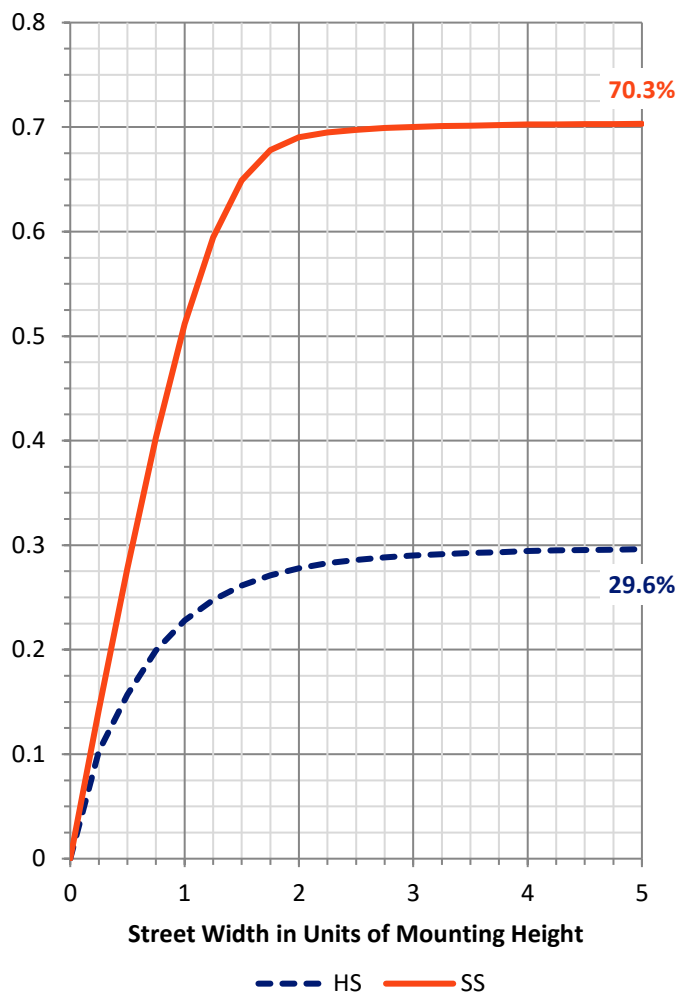
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1439.0	0.0	1439.0
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	3402.1	0.0	3402.1
	% Fixture	70.3	0.0	70.3
Total	Lumens	4841.1	0.0	4841.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.1	2.3
10°-20°	308.8	6.4
20°-30°	523.4	10.8
30°-40°	801.1	16.5
40°-50°	1068.2	22.1
50°-60°	1233.7	25.5
60°-70°	641.0	13.2
70°-80°	136.3	2.8
80°-90°	17.7	0.4
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°	4841.1	100.0
0°-180°	4841.1	100.0

Coefficient of Utilization



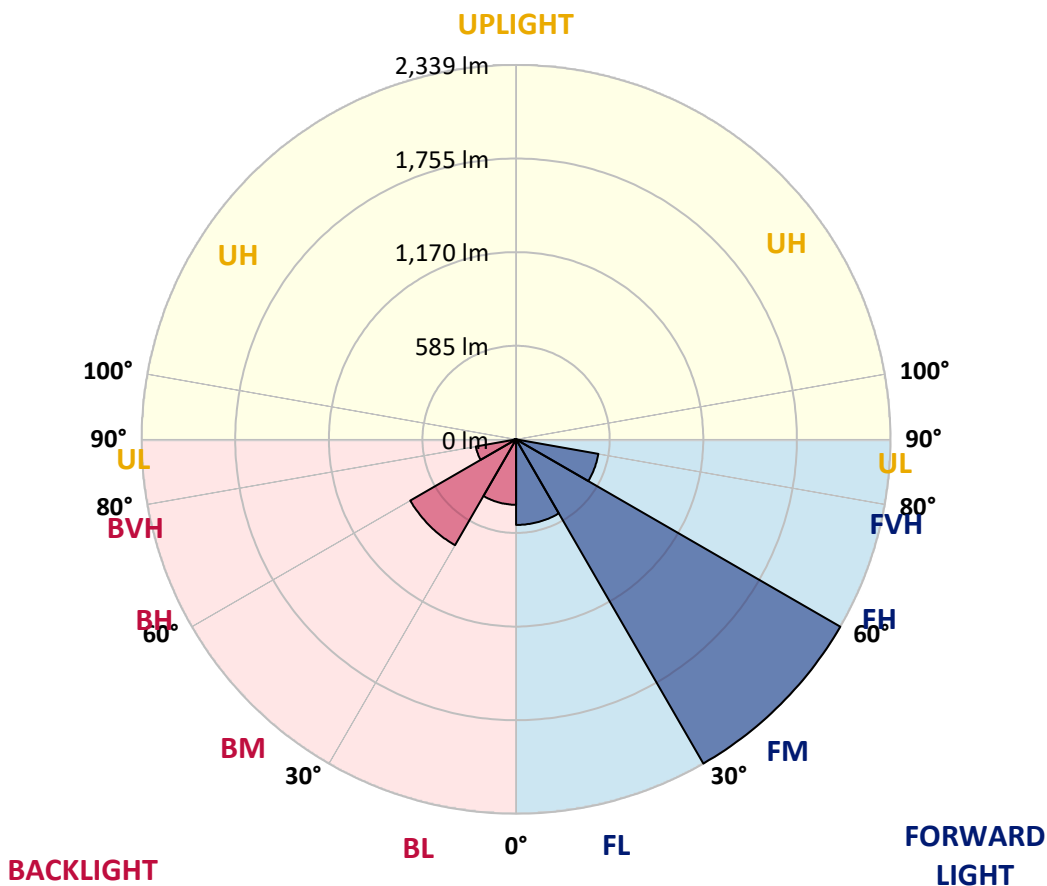
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	534.6	11.0			
FM (30°-60°)	2339.4	48.3			
FH (60°-80°)	522.0	10.8			G0/660
FVH (80°-90°)	6.2	0.1			G0/10
BL (0°-30°)	408.7	8.4	B1/500		
BM (30°-60°)	763.5	15.8	B1/1000		
BH (60°-80°)	255.3	5.3	B1/500		G1/500
BVH (80°-90°)	11.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1199.7	1199.7	1199.7	1199.7	1199.7	1199.7	1199.7	1199.7	1199.7	1199.7	1199.7
2.5°	1145.1	1142.7	1143.5	1146.7	1158.6	1167.3	1176.4	1184.7	1192.6	1195.0	1197.0
5°	1104.3	1100.0	1101.2	1106.3	1120.2	1134.8	1151.1	1170.8	1189.8	1196.2	1204.5
7.5°	1075.4	1074.7	1076.6	1084.6	1099.2	1113.1	1134.0	1162.1	1195.0	1205.7	1220.3
10°	1037.1	1035.5	1043.4	1059.6	1083.8	1105.9	1130.9	1164.1	1210.0	1225.9	1248.4
12.5°	1006.6	1005.8	1014.1	1036.7	1067.5	1102.8	1137.2	1174.4	1230.2	1252.0	1279.7
15°	1024.4	1020.8	1021.2	1037.1	1064.8	1106.3	1153.0	1193.0	1250.4	1278.1	1313.7
17.5°	1076.2	1069.9	1065.2	1067.9	1083.8	1126.9	1177.2	1217.9	1273.8	1306.2	1349.8
20°	1147.9	1144.3	1131.3	1122.6	1126.1	1164.1	1215.2	1253.2	1304.2	1340.6	1387.4
22.5°	1244.1	1235.4	1217.5	1203.7	1193.0	1222.7	1269.8	1302.7	1346.6	1384.6	1433.3
25°	1363.2	1350.5	1322.4	1300.7	1277.7	1308.2	1350.1	1375.1	1404.8	1440.0	1486.3
27.5°	1484.7	1474.0	1442.8	1413.5	1385.0	1404.0	1453.9	1468.1	1464.9	1490.7	1530.2
30°	1614.2	1600.7	1571.0	1539.4	1502.5	1514.8	1559.5	1566.7	1533.0	1554.4	1581.3
32.5°	1750.7	1737.7	1711.9	1675.1	1633.6	1638.3	1650.6	1657.3	1625.2	1637.5	1658.1
35°	1889.7	1877.4	1851.3	1814.8	1784.4	1755.5	1724.6	1751.5	1732.9	1756.7	1755.1
37.5°	2016.7	2004.4	1988.2	1960.1	1907.9	1850.9	1779.6	1812.9	1841.8	1871.8	1866.7
40°	2102.6	2094.3	2098.3	2093.9	2026.6	1913.8	1806.5	1842.9	1921.7	1973.2	1970.4
42.5°	2176.6	2168.3	2191.3	2207.9	2128.7	1972.0	1819.6	1854.4	1972.8	2053.1	2049.2
45°	2209.5	2207.1	2245.1	2297.7	2222.1	2033.7	1853.2	1878.2	2011.6	2114.5	2099.4
47.5°	2170.3	2178.6	2253.4	2342.5	2299.7	2107.0	1922.1	1928.4	2062.2	2181.0	2138.6
50°	2092.3	2110.5	2211.5	2343.7	2356.3	2189.7	2017.5	2001.7	2130.3	2251.8	2159.2
52.5°	1978.7	1997.7	2162.4	2334.6	2388.8	2285.5	2144.6	2122.0	2216.2	2322.7	2162.8
55°	1717.9	1743.6	2050.0	2314.0	2420.5	2372.6	2287.9	2241.9	2327.0	2420.1	2198.0
57.5°	1490.3	1503.7	1776.1	2222.5	2426.8	2436.7	2390.0	2335.3	2437.1	2525.3	2237.6
60°	1093.7	1096.8	1341.8	1839.0	2232.4	2399.5	2381.7	2300.5	2384.8	2441.0	2056.3
62.5°	617.9	618.3	813.8	1227.4	1667.6	1955.8	1966.8	1895.2	1824.3	1841.0	1431.3
65°	232.0	253.7	371.7	603.2	961.5	1154.6	1200.5	1217.2	1099.2	1026.0	767.5
67.5°	155.2	160.3	216.9	310.3	427.9	494.0	552.6	554.2	405.3	361.4	302.4
70°	118.4	123.5	170.6	222.1	216.9	200.3	216.5	210.6	217.7	223.6	230.0
72.5°	88.3	93.4	132.2	156.7	130.2	128.2	145.3	161.5	176.5	182.9	192.8
75°	58.6	62.5	89.1	83.9	72.0	85.1	106.1	122.3	131.0	138.5	146.1
77.5°	37.2	40.0	47.5	38.4	40.0	49.9	61.7	76.4	84.7	92.2	96.2
80°	17.0	16.6	16.2	18.2	22.6	29.3	37.2	45.9	52.2	55.4	57.8
82.5°	6.7	7.5	8.3	9.9	12.3	15.8	21.0	26.9	32.1	32.9	34.8
85°	2.8	3.2	3.6	4.4	5.5	7.1	8.7	12.3	15.4	16.6	17.8
87.5°	0.0	0.0	0.0	0.0	0.4	0.8	1.2	2.0	3.6	4.0	4.4
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°	1199.7	1199.7	1199.7	1199.7	1199.7	1199.7	1199.7	1199.7	1199.7	1199.7	1199.7
2.5°	1207.7	1202.5	1211.2	1217.2	1222.7	1216.8	1214.8	1209.6	1208.8	1208.8	1211.6
5°	1218.7	1215.2	1224.3	1227.8	1227.4	1214.4	1206.5	1196.2	1191.0	1191.0	1191.8
7.5°	1238.5	1236.5	1241.7	1236.2	1223.5	1197.0	1170.8	1149.1	1134.4	1126.9	1129.3
10°	1271.4	1269.0	1264.7	1244.1	1207.7	1152.6	1099.2	1059.6	1035.9	1022.4	1023.2
12.5°	1303.4	1299.5	1284.0	1238.5	1163.7	1076.2	1006.2	961.8	935.7	919.9	916.3
15°	1338.7	1328.4	1295.1	1210.0	1092.1	982.8	909.6	861.7	833.6	824.1	823.7
17.5°	1372.3	1354.1	1293.9	1159.4	1006.2	885.1	811.4	781.7	777.0	781.4	782.5
20°	1406.4	1377.1	1280.9	1089.3	904.1	787.7	749.7	762.0	779.8	791.6	794.4
22.5°	1441.6	1396.1	1251.2	999.1	796.4	722.0	737.8	764.7	786.9	802.7	804.3
25°	1481.2	1413.9	1206.9	888.6	710.1	703.8	735.0	763.5	787.3	805.5	808.7
27.5°	1503.7	1414.3	1144.7	775.0	670.5	696.6	728.3	755.2	779.0	798.8	802.3
30°	1525.9	1403.6	1046.2	682.8	659.0	688.3	716.8	741.8	764.3	783.7	788.1
32.5°	1557.2	1393.7	932.6	629.8	652.3	680.4	703.8	725.9	743.4	752.1	754.4
35°	1596.0	1381.0	811.8	606.8	648.0	674.1	694.7	706.5	684.0	679.2	684.4
37.5°	1650.2	1369.1	691.5	596.9	645.2	671.7	689.9	659.4	631.7	620.6	624.6
40°	1708.8	1362.4	610.0	589.0	646.4	674.1	670.1	625.0	585.0	561.7	560.9
42.5°	1758.6	1352.1	557.7	583.8	649.5	683.2	643.2	594.5	535.2	521.3	521.7
45°	1792.3	1326.0	530.0	578.3	652.3	685.2	630.5	552.6	510.2	501.5	501.1
47.5°	1806.1	1278.5	512.2	569.6	651.9	668.9	604.8	535.2	492.8	490.4	492.0
50°	1797.0	1200.5	494.0	552.6	642.4	651.9	575.1	519.7	480.9	494.0	503.5
52.5°	1763.4	1099.6	472.2	529.2	625.4	632.5	560.1	510.2	472.2	489.6	497.2
55°	1754.7	1017.7	444.5	498.7	600.1	598.1	544.3	505.5	466.3	459.5	460.7
57.5°	1743.2	937.7	398.6	444.1	535.9	539.1	529.2	499.9	450.8	448.9	450.8
60°	1514.4	718.8	355.4	383.2	440.2	457.2	512.2	489.6	425.9	417.6	417.2
62.5°	989.2	435.4	316.3	334.1	358.6	378.4	467.1	459.9	398.6	393.4	397.0
65°	532.0	310.3	287.8	298.4	311.9	326.9	387.1	409.7	360.2	342.0	342.4
67.5°	271.9	264.0	266.4	273.9	284.2	291.7	312.3	332.1	307.2	291.7	291.3
70°	232.7	239.1	242.6	247.0	253.7	252.5	254.5	258.1	256.1	248.6	248.2
72.5°	198.3	208.2	209.0	209.8	212.2	206.6	203.1	197.1	197.5	198.7	199.1
75°	150.8	160.3	162.7	161.5	163.9	156.7	152.0	146.1	138.9	137.7	138.5
77.5°	98.2	105.7	109.2	108.5	109.6	104.1	101.7	95.4	87.1	83.9	83.9
80°	59.4	63.7	66.5	67.3	68.5	64.5	60.6	55.0	51.5	47.9	47.9
82.5°	36.0	38.8	40.8	40.8	42.0	37.6	34.4	30.5	28.9	25.7	25.7
85°	18.2	20.2	21.0	20.6	19.8	16.2	15.0	13.1	12.3	10.7	10.7
87.5°	4.4	5.5	5.5	4.0	4.0	2.0	1.2	0.4	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)