

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: P631449

Luminaire Tested: GWS-SA1F-760-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631449
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-760-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH
Light Source: (16) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7086.5 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

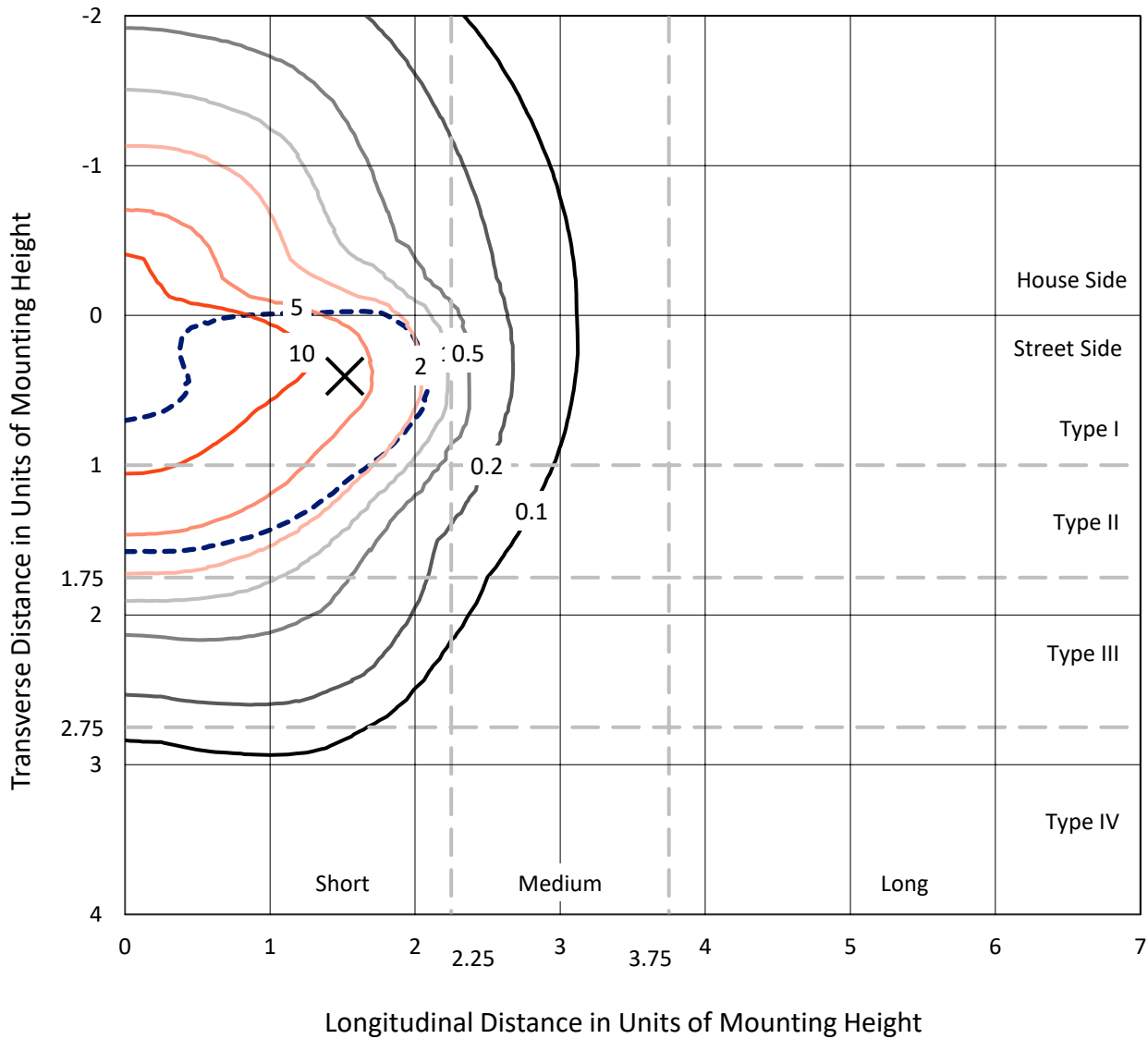
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P631449
 CATALOG NUMBER: GWS-SA1F-760-U-T2-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

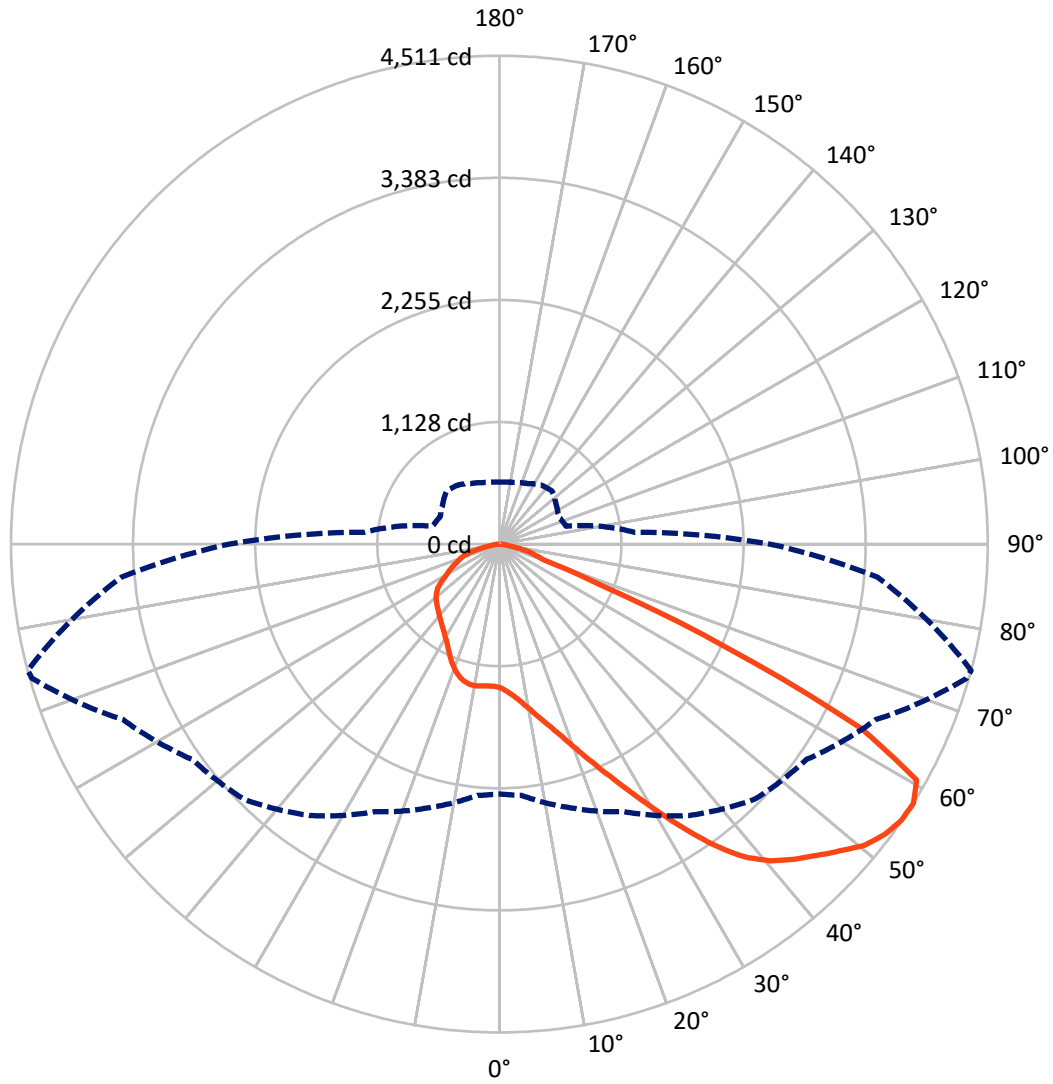
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.8 fc
 Type II - Short - N/A

REPORT NUMBER: P631449
CATALOG NUMBER: GWS-SA1F-760-U-T2-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P631449
 CATALOG NUMBER: GWS-SA1F-760-U-T2-W-GRSWH

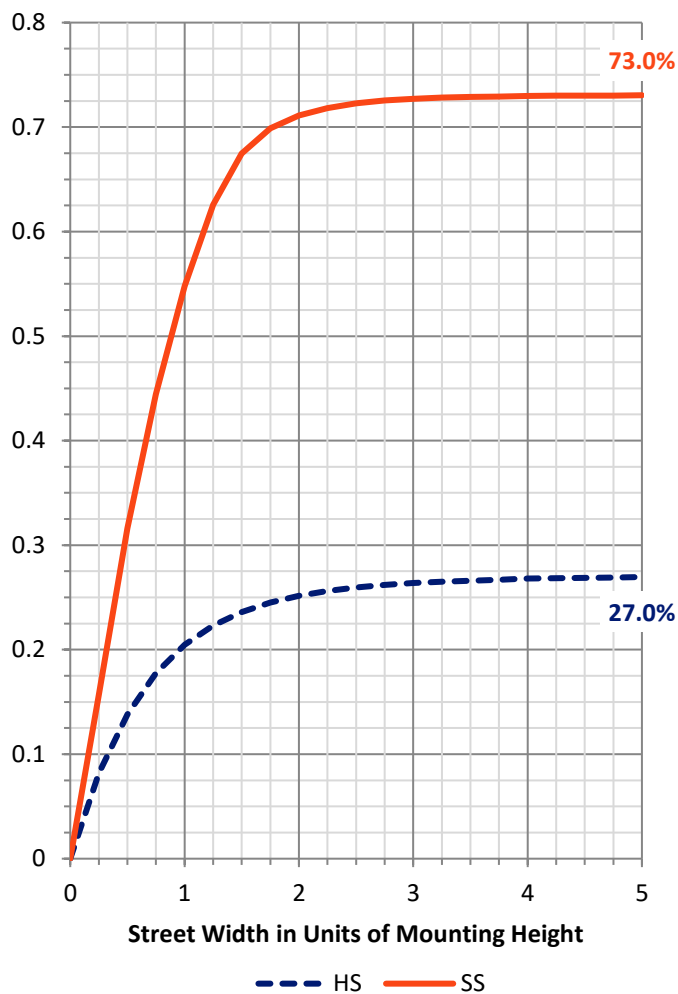
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1917.0	0.0	1917.0
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	5169.5	0.0	5169.5
	% Fixture	72.9	0.0	72.9
Total	Lumens	7086.5	0.0	7086.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.8	1.9
10°-20°	422.8	6.0
20°-30°	749.9	10.6
30°-40°	1147.9	16.2
40°-50°	1598.4	22.6
50°-60°	1831.4	25.8
60°-70°	941.0	13.3
70°-80°	236.9	3.3
80°-90°	25.3	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°	7086.5	100.0
0°-180°	7086.5	100.0

Coefficient of Utilization



REPORT NUMBER: P631449

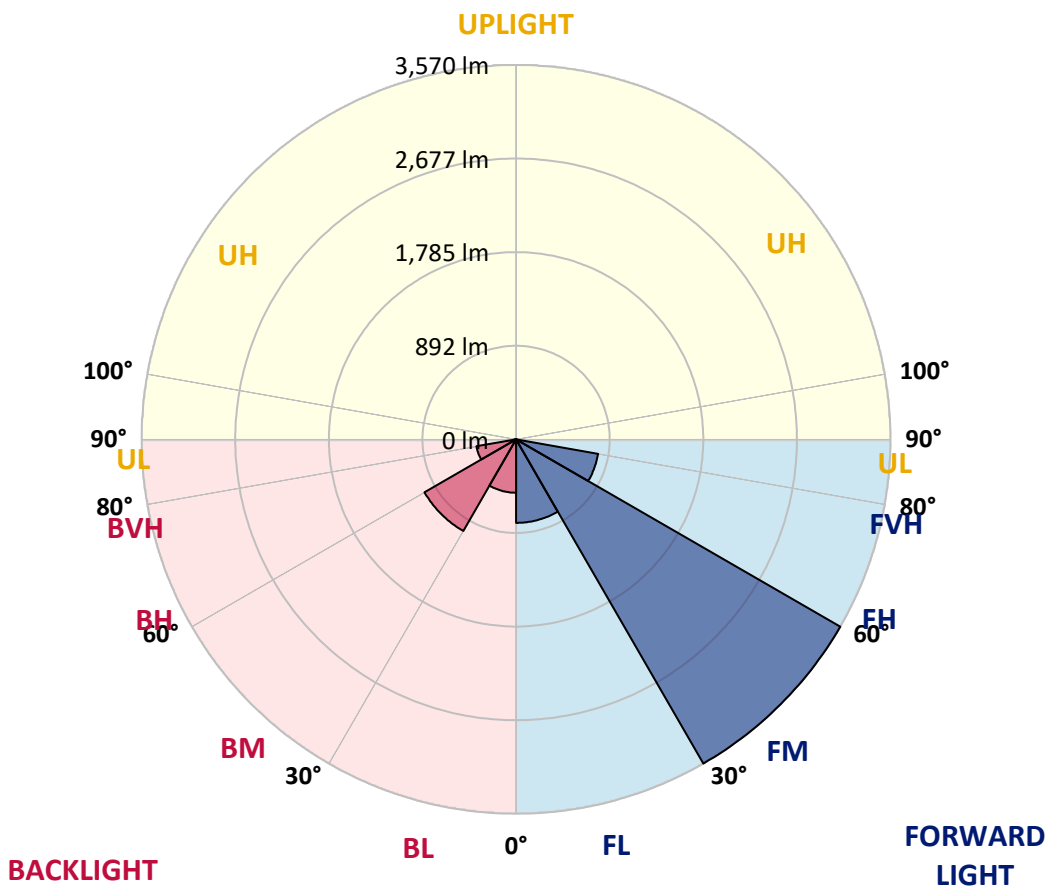
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	796.2	11.2			
FM (30°-60°)	3569.6	50.4			
FH (60°-80°)	794.3	11.2			G1/1800
FVH (80°-90°)	9.4	0.1			G0/10
BL (0°-30°)	509.3	7.2	B2/1000		
BM (30°-60°)	1008.2	14.2	B2/2500		
BH (60°-80°)	383.6	5.4	B1/500		G1/500
BVH (80°-90°)	16.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





REPORT NUMBER: P631449

CATALOG NUMBER: GWS-SA1F-760-U-T2-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1327.1	1327.1	1327.1	1327.1	1327.1	1327.1	1327.1	1327.1	1327.1	1327.1	1327.1
2.5°	1425.8	1429.5	1425.8	1431.9	1419.8	1414.3	1400.9	1380.8	1364.9	1362.5	1344.8
5°	1536.7	1544.7	1539.8	1537.4	1520.9	1508.7	1488.6	1448.4	1415.5	1410.6	1375.9
7.5°	1608.0	1613.5	1613.5	1615.3	1609.3	1595.2	1573.9	1526.4	1480.1	1472.8	1420.4
10°	1631.8	1636.1	1644.0	1659.2	1671.4	1675.7	1661.7	1616.0	1559.3	1552.0	1478.9
12.5°	1637.3	1642.2	1654.3	1682.4	1715.9	1746.4	1748.8	1715.3	1651.9	1644.0	1546.5
15°	1647.6	1652.5	1669.0	1703.7	1753.1	1811.6	1847.5	1824.3	1754.3	1745.7	1623.3
17.5°	1646.4	1651.9	1676.3	1722.6	1789.0	1873.7	1943.2	1952.9	1880.4	1865.8	1710.4
20°	1643.4	1648.3	1674.5	1731.1	1813.4	1929.8	2055.3	2105.9	2027.9	2014.5	1812.2
22.5°	1667.7	1673.2	1693.3	1740.3	1826.2	1973.0	2158.9	2280.7	2202.7	2183.9	1929.2
25°	1722.6	1730.5	1742.7	1775.0	1849.3	2011.4	2264.9	2478.8	2399.0	2376.4	2056.5
27.5°	1807.3	1817.0	1834.1	1849.3	1901.1	2060.2	2370.3	2700.6	2620.7	2597.0	2191.2
30°	1910.9	1923.7	1945.6	1956.0	1991.3	2132.1	2484.9	2929.1	2882.8	2849.9	2342.9
32.5°	2054.1	2071.7	2092.5	2095.5	2116.8	2241.1	2598.2	3155.7	3155.1	3132.0	2515.3
35°	2240.5	2259.4	2263.7	2267.9	2278.3	2391.0	2735.3	3362.3	3442.1	3415.3	2703.0
37.5°	2444.0	2471.5	2478.2	2459.3	2473.9	2571.4	2889.5	3528.0	3692.0	3663.3	2884.6
40°	2661.6	2672.5	2690.8	2661.0	2679.2	2778.0	3040.6	3634.1	3878.4	3847.9	3027.8
42.5°	2817.6	2837.7	2865.1	2854.1	2864.5	2954.7	3146.6	3685.3	4011.3	3980.8	3130.8
45°	2987.0	2993.1	3010.7	3008.3	3014.4	3098.5	3222.8	3707.8	4130.1	4102.7	3218.5
47.5°	3134.4	3143.6	3155.1	3141.7	3128.3	3183.2	3284.9	3727.3	4267.2	4234.3	3310.5
50°	3276.4	3284.3	3298.3	3259.3	3209.4	3223.4	3315.4	3754.1	4395.7	4372.6	3383.0
52.5°	3302.6	3311.1	3376.9	3384.9	3320.9	3271.5	3369.0	3813.2	4471.3	4456.7	3409.2
55°	2972.9	2988.2	3119.2	3269.7	3427.5	3411.7	3454.9	3844.3	4501.2	4504.8	3456.1
57.5°	2307.6	2329.5	2520.8	2727.4	3059.5	3334.3	3465.9	3836.4	4490.8	4510.9	3504.3
60°	1513.6	1526.4	1753.1	1984.6	2328.9	2709.1	3102.1	3693.8	4398.8	4427.4	3492.1
62.5°	914.0	928.6	1110.8	1286.3	1489.2	1743.3	2104.0	2968.7	3687.1	3751.1	2796.8
65°	638.0	657.5	817.1	961.5	1031.6	979.2	1065.7	1658.0	2297.2	2324.0	1709.2
67.5°	462.5	475.9	606.9	778.7	856.1	691.6	527.1	734.2	1000.5	1010.3	705.0
70°	302.8	318.1	436.9	592.9	698.9	560.6	394.2	397.3	421.1	425.9	409.5
72.5°	166.3	175.5	269.9	393.6	413.1	335.1	307.7	330.3	346.7	346.7	351.0
75°	85.9	93.8	110.3	129.8	156.6	183.4	221.8	255.3	273.0	274.2	272.4
77.5°	43.9	46.9	59.1	64.0	70.1	81.7	106.0	135.9	151.7	157.8	156.6
80°	20.7	21.9	25.0	29.2	36.0	45.7	57.3	68.2	78.0	79.2	85.9
82.5°	11.0	12.2	13.4	15.8	19.5	24.4	33.5	40.2	46.3	47.5	53.0
85°	4.3	4.9	5.5	6.1	8.5	10.4	14.0	18.9	23.2	23.2	27.4
87.5°	0.0	0.0	0.0	0.0	0.6	1.2	2.4	3.0	4.3	4.3	7.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P631449

CATALOG NUMBER: GWS-SA1F-760-U-T2-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1327.1	1327.1	1327.1	1327.1	1327.1	1327.1	1327.1	1327.1	1327.1	1327.1	1327.1
2.5°	1340.5	1322.9	1314.9	1302.1	1291.8	1280.2	1271.1	1264.4	1260.1	1257.7	1255.2
5°	1362.5	1335.7	1314.3	1288.7	1271.1	1254.0	1240.0	1230.2	1225.4	1221.7	1219.3
7.5°	1396.6	1360.6	1320.4	1280.8	1249.7	1222.3	1204.7	1194.3	1187.6	1185.2	1183.3
10°	1443.5	1393.5	1327.1	1264.4	1218.1	1188.2	1176.0	1171.1	1171.8	1170.5	1169.9
12.5°	1496.5	1428.3	1325.3	1235.1	1183.9	1166.3	1166.9	1174.8	1183.9	1186.4	1187.0
15°	1553.8	1462.4	1307.6	1197.3	1157.1	1159.0	1174.8	1193.7	1210.7	1217.5	1218.7
17.5°	1616.0	1491.0	1275.3	1155.9	1135.2	1154.7	1183.9	1215.0	1240.0	1251.0	1254.0
20°	1685.4	1515.4	1229.6	1115.1	1114.5	1146.8	1189.4	1230.2	1261.9	1276.6	1279.0
22.5°	1759.1	1530.6	1173.6	1077.3	1093.1	1136.4	1185.2	1227.8	1261.3	1275.9	1279.0
25°	1833.5	1535.5	1112.0	1042.6	1071.2	1120.0	1164.4	1198.6	1230.2	1243.0	1245.5
27.5°	1903.0	1521.5	1053.5	1012.7	1051.1	1095.6	1125.4	1143.7	1165.7	1175.4	1177.2
30°	1973.6	1493.5	1004.2	989.0	1028.6	1062.1	1075.5	1076.7	1085.2	1085.2	1086.4
32.5°	2044.9	1452.0	960.9	965.8	1000.5	1022.5	1024.3	1010.3	999.9	982.9	982.2
35°	2127.2	1410.0	925.6	939.6	967.6	981.0	975.5	948.7	923.8	895.7	894.5
37.5°	2203.4	1366.7	895.7	912.8	930.5	940.2	927.4	895.1	874.4	845.8	841.5
40°	2266.1	1327.7	867.1	884.8	893.3	901.8	881.1	854.9	857.9	842.1	841.5
42.5°	2302.7	1290.0	840.3	853.7	859.2	865.3	847.0	827.5	843.9	831.7	832.4
45°	2329.5	1257.1	815.9	820.8	834.2	843.3	826.3	804.3	808.0	761.1	750.1
47.5°	2360.0	1238.8	792.7	787.9	811.6	827.5	801.3	769.6	747.7	701.3	697.1
50°	2392.2	1232.1	768.4	755.0	783.6	798.8	768.4	728.8	700.1	675.1	672.7
52.5°	2403.2	1231.5	737.9	715.4	744.0	765.3	739.7	699.5	665.4	641.0	639.8
55°	2446.5	1249.1	698.9	661.1	687.9	731.8	712.9	655.0	627.6	616.6	615.4
57.5°	2497.1	1252.2	637.4	602.0	639.2	691.0	667.2	617.3	587.4	574.0	572.8
60°	2476.3	1177.2	571.6	556.9	597.8	652.6	630.7	587.4	552.7	539.9	538.7
62.5°	1887.1	831.1	523.4	517.9	553.3	597.1	592.9	547.8	514.9	505.7	504.5
65°	1135.2	583.7	477.1	476.5	501.5	543.5	549.0	512.5	477.7	464.9	464.9
67.5°	561.2	446.6	424.7	421.7	437.5	467.4	490.5	460.7	431.4	419.2	417.4
70°	396.7	393.6	386.3	377.8	380.8	393.0	402.8	377.8	346.7	334.5	332.1
72.5°	343.1	343.7	338.8	332.1	329.7	321.1	312.6	294.3	275.4	262.6	263.8
75°	266.3	267.5	270.5	268.1	261.4	252.3	243.1	220.0	204.7	192.5	190.1
77.5°	155.4	161.5	171.2	168.8	170.0	157.2	153.6	131.0	117.0	108.5	106.6
80°	87.7	91.4	95.7	98.7	95.1	89.6	81.7	69.5	65.2	59.1	57.9
82.5°	53.0	56.7	58.5	60.9	59.7	52.4	46.3	38.4	34.7	31.7	31.1
85°	26.8	29.2	31.1	32.3	28.6	23.8	21.3	17.1	14.6	12.8	12.8
87.5°	6.7	7.3	8.5	7.3	6.7	3.0	2.4	0.6	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)