

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: P631405

Luminaire Tested: GWS-SA1F-750-U-T3R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631405  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1F-750-U-T3R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (16) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

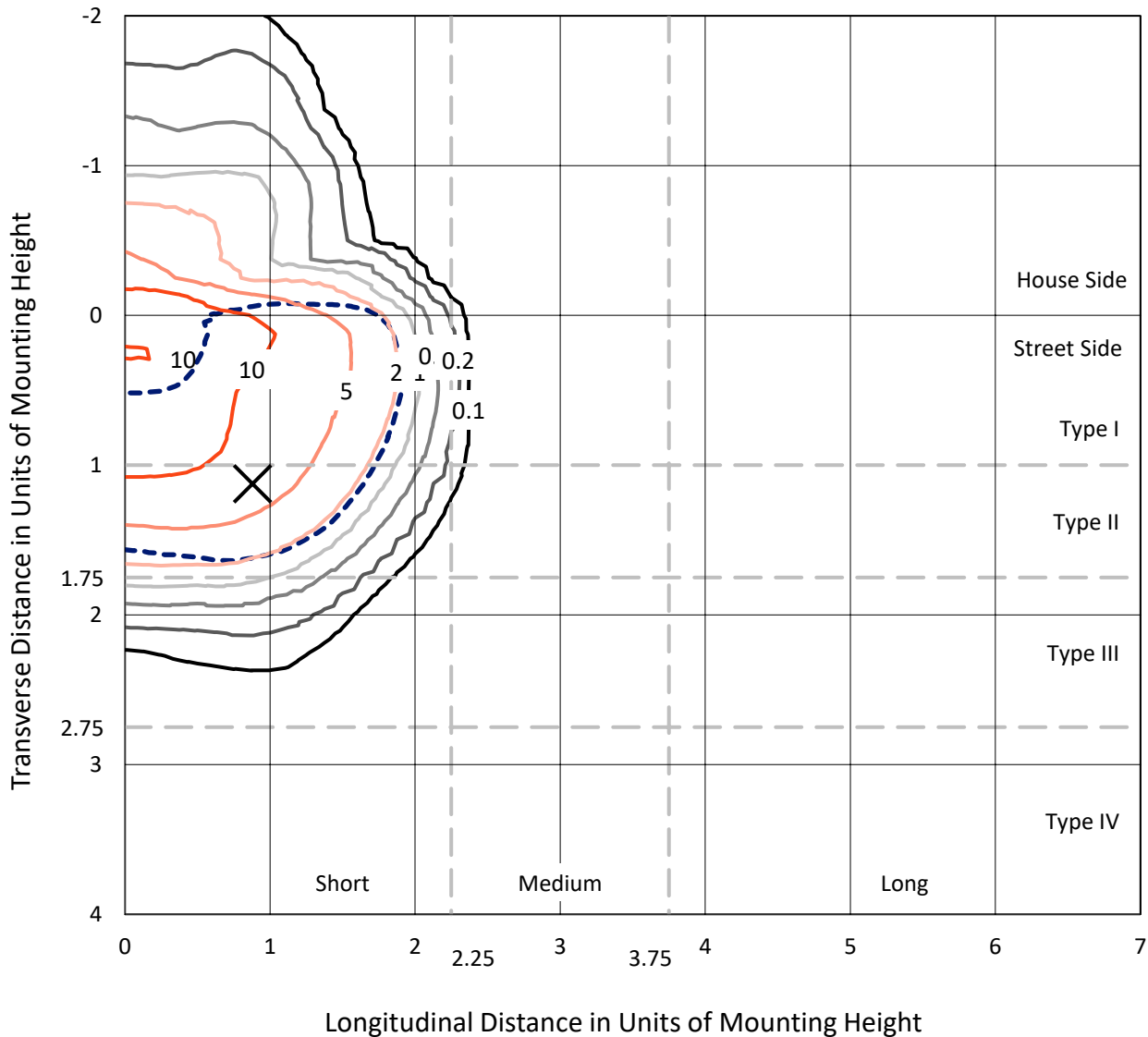
Lumens per Lamp: N/A  
Luminaire Lumens: 5405.1 lumens  
Efficiency: N/A  
Efficacy: 80.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

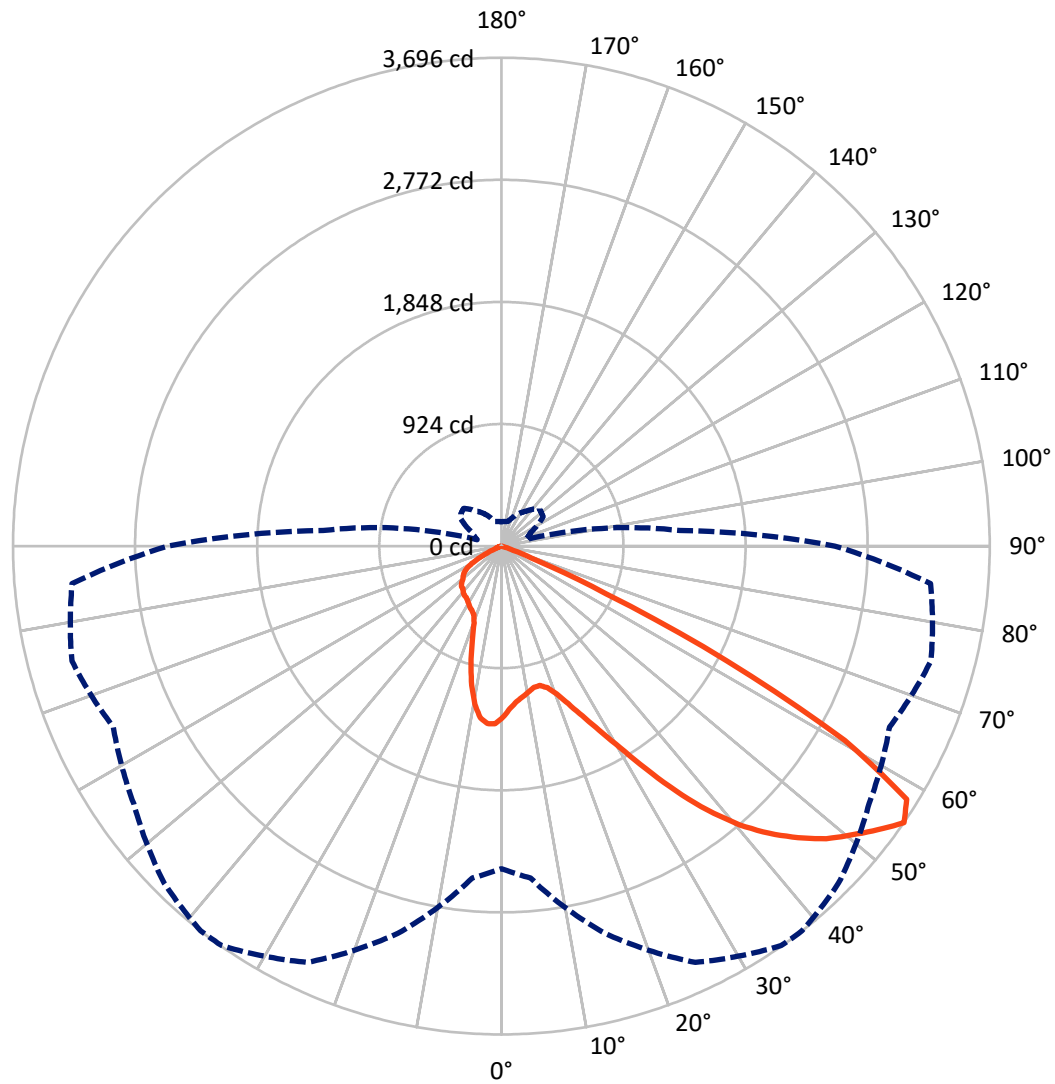
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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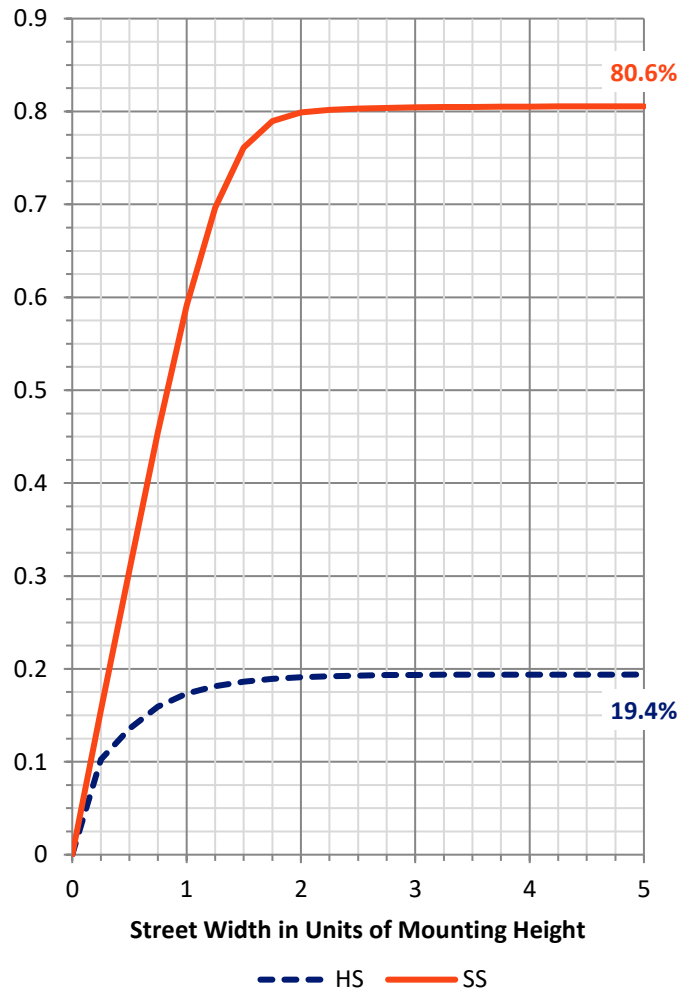
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1053.1	0.0	1053.1
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	4352.0	0.0	4352.0
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	5405.1	0.0	5405.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.8	2.2
10°-20°	322.6	6.0
20°-30°	553.7	10.2
30°-40°	918.3	17.0
40°-50°	1350.0	25.0
50°-60°	1577.5	29.2
60°-70°	534.7	9.9
70°-80°	27.3	0.5
80°-90°	1.1	0.0
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°	5405.1	100.0
0°-180°	5405.1	100.0

**Coefficient of Utilization**



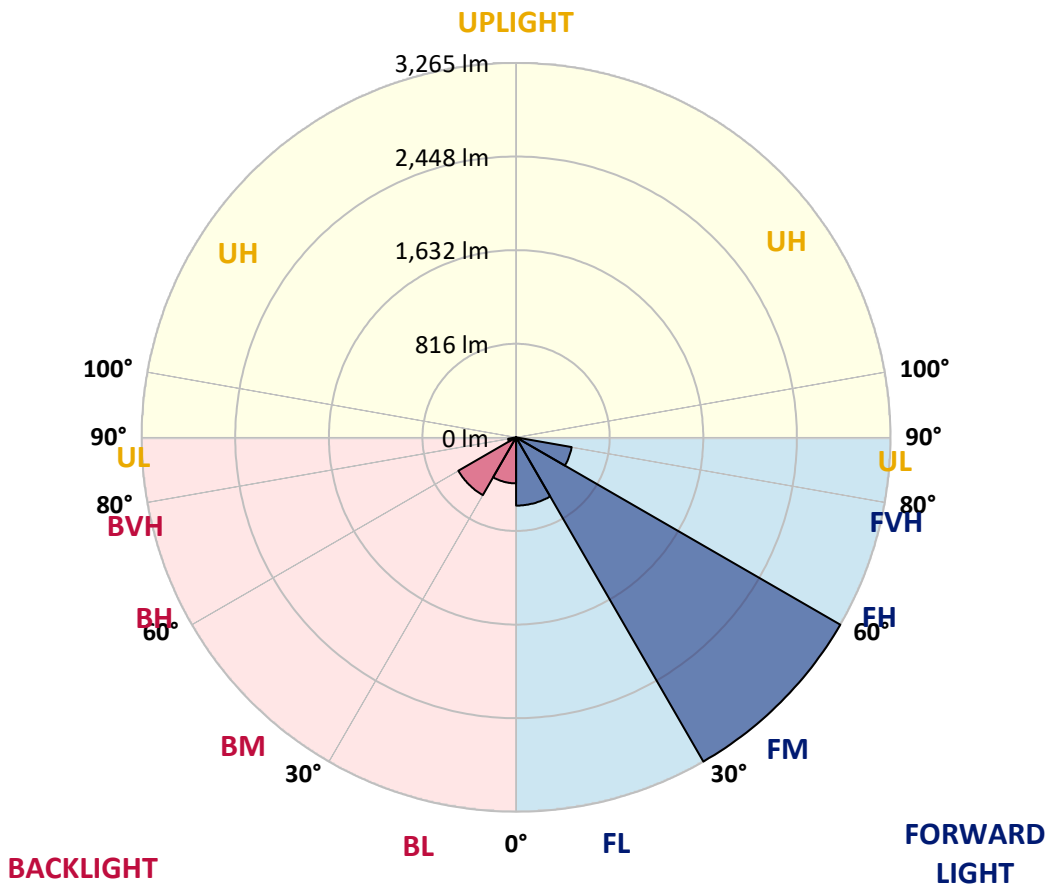
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	595.0	11.0			
FM (30°-60°)	3264.5	60.4			
FH (60°-80°)	492.0	9.1			G0/660
FVH (80°-90°)	0.6	0.0			G0/10
BL (0°-30°)	401.2	7.4	B1/500		
BM (30°-60°)	581.3	10.8	B1/1000		
BH (60°-80°)	70.1	1.3	B0/110		G0/110
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1296.2	1296.2	1296.2	1296.2	1296.2	1296.2	1296.2	1296.2	1296.2	1296.2	1296.2
2.5°	1207.2	1204.7	1209.7	1219.6	1228.8	1231.9	1241.2	1254.2	1262.2	1281.4	1296.8
5°	1152.9	1151.6	1156.6	1165.2	1177.6	1181.9	1196.1	1217.7	1239.3	1272.7	1305.5
7.5°	1103.4	1102.8	1110.2	1129.4	1147.3	1152.9	1170.1	1196.7	1225.8	1277.0	1325.2
10°	1038.6	1039.2	1053.4	1080.6	1113.3	1124.4	1152.2	1190.5	1228.2	1294.3	1361.1
12.5°	1017.5	1018.8	1026.2	1047.2	1083.0	1097.2	1136.2	1194.2	1242.4	1319.0	1407.4
15°	1068.8	1068.8	1062.6	1065.1	1081.2	1094.2	1134.9	1206.6	1266.5	1348.7	1453.1
17.5°	1168.3	1164.6	1149.1	1128.1	1122.6	1126.9	1159.6	1233.2	1300.5	1383.3	1505.0
20°	1303.0	1304.2	1273.9	1230.1	1194.9	1194.2	1214.0	1280.1	1349.3	1424.7	1561.2
22.5°	1466.1	1461.1	1421.0	1361.1	1299.9	1294.9	1303.0	1351.8	1419.7	1490.2	1630.4
25°	1655.1	1652.7	1595.8	1515.5	1434.6	1422.8	1422.8	1471.0	1520.5	1583.5	1713.2
27.5°	1852.8	1852.8	1797.9	1705.2	1597.7	1576.7	1573.6	1630.4	1663.2	1675.5	1783.0
30°	2056.1	2053.6	1999.3	1904.1	1789.2	1767.6	1758.9	1800.9	1824.4	1787.4	1870.1
32.5°	2262.5	2266.8	2211.8	2123.4	2020.9	2006.7	1980.1	1980.1	1999.3	1947.4	2007.3
35°	2484.3	2483.0	2439.8	2379.8	2292.1	2276.0	2232.2	2163.6	2192.6	2169.8	2197.0
37.5°	2680.1	2689.4	2668.4	2623.9	2552.8	2536.8	2464.5	2340.3	2362.5	2398.4	2422.5
40°	2879.0	2886.5	2907.5	2893.2	2803.7	2774.0	2645.5	2441.6	2466.3	2589.3	2658.5
42.5°	3074.3	3078.0	3120.6	3144.1	3024.2	2972.3	2782.7	2503.4	2529.4	2738.8	2859.9
45°	3198.4	3206.5	3276.9	3348.6	3218.8	3147.8	2901.9	2582.5	2593.6	2842.6	3008.8
47.5°	3193.5	3212.0	3344.3	3474.6	3386.3	3309.7	3045.2	2709.1	2690.6	2940.2	3107.0
50°	3094.0	3116.3	3305.9	3512.9	3506.7	3435.7	3204.6	2892.6	2834.6	3026.7	3119.4
52.5°	2887.7	2951.9	3238.6	3517.9	3603.7	3567.9	3401.7	3139.8	3029.2	3150.9	3139.1
55°	2441.6	2520.7	3034.1	3475.8	3691.5	3695.8	3608.7	3397.4	3240.5	3364.6	3260.8
57.5°	1853.5	1916.5	2335.4	3094.0	3546.3	3617.3	3689.0	3533.3	3370.8	3510.4	3289.3
60°	1117.0	1189.9	1462.4	2270.5	2864.2	2985.3	3266.4	3236.1	3040.3	3100.2	2697.4
62.5°	452.9	491.2	675.3	1251.1	1802.8	1915.9	2185.2	2230.9	2182.8	2121.6	1636.0
65°	165.6	181.0	270.6	517.1	829.1	870.5	1012.6	1093.5	1160.3	987.9	608.6
67.5°	102.6	112.4	176.1	265.7	301.5	280.5	285.4	340.4	325.0	200.8	108.7
70°	76.0	84.0	137.8	184.1	121.7	93.9	63.6	68.0	61.2	53.8	53.1
72.5°	52.5	59.9	103.2	108.7	47.0	33.4	23.5	32.7	37.1	36.5	37.7
75°	34.6	40.2	64.9	42.6	11.7	9.3	8.0	17.3	22.2	22.2	22.9
77.5°	20.4	23.5	22.9	8.6	2.5	2.5	1.9	3.1	4.9	5.6	6.8
80°	2.5	1.9	1.2	1.2	1.2	1.2	1.2	1.2	1.9	1.9	1.9
82.5°	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.9	1.9
85°	0.0	0.0	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.9	1.9
87.5°	0.0	0.0	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.9	1.9
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°	1296.2	1296.2	1296.2	1296.2	1296.2	1296.2	1296.2	1296.2	1296.2	1296.2	1296.2
2.5°	1308.5	1304.2	1322.1	1335.1	1345.6	1350.6	1343.8	1343.1	1343.1	1329.5	1325.8
5°	1324.0	1325.8	1351.2	1362.3	1364.1	1358.0	1342.5	1332.0	1325.8	1311.6	1303.6
7.5°	1353.6	1359.8	1383.9	1382.1	1365.4	1337.0	1296.2	1264.7	1244.3	1222.0	1208.5
10°	1396.3	1408.0	1422.8	1396.9	1343.8	1271.5	1187.4	1127.5	1091.7	1066.4	1050.9
12.5°	1448.2	1459.9	1455.0	1393.8	1283.2	1154.1	1046.0	959.5	918.1	895.2	879.2
15°	1500.7	1508.1	1476.0	1356.7	1176.3	1002.7	882.2	796.4	745.7	727.2	713.6
17.5°	1554.4	1552.6	1479.7	1283.8	1033.6	832.2	713.6	654.9	640.7	637.6	636.4
20°	1610.7	1594.0	1464.8	1179.4	861.9	663.5	596.2	599.9	625.9	638.2	640.7
22.5°	1674.9	1632.9	1427.8	1037.9	686.4	552.9	559.7	596.2	631.4	648.1	650.6
25°	1743.5	1668.7	1366.0	856.3	541.2	508.5	548.6	590.6	628.3	648.7	651.2
27.5°	1788.6	1677.4	1264.7	673.4	464.6	491.2	533.8	574.0	612.9	635.1	638.2
30°	1837.4	1673.7	1126.9	519.0	438.7	476.3	513.4	549.9	585.7	610.4	612.9
32.5°	1909.1	1671.2	958.9	421.4	428.1	464.6	491.8	522.1	546.8	561.0	559.1
35°	2003.0	1668.1	763.0	380.0	422.0	455.3	477.0	491.2	464.0	455.3	457.2
37.5°	2123.4	1675.5	598.0	362.7	420.1	452.9	471.4	430.6	388.6	372.5	370.1
40°	2256.9	1694.7	456.0	355.9	426.3	459.0	450.4	383.0	331.2	299.6	292.8
42.5°	2391.0	1715.7	360.8	353.4	436.8	476.3	415.8	348.4	270.6	252.7	250.2
45°	2490.4	1712.0	312.0	349.1	446.1	486.2	406.5	299.0	241.6	233.5	234.2
47.5°	2540.5	1671.2	285.4	339.2	449.8	476.3	383.7	278.6	221.8	230.4	237.9
50°	2513.9	1565.6	260.7	320.0	441.7	463.4	347.2	263.2	211.9	247.7	264.4
52.5°	2481.8	1435.8	233.5	290.4	422.6	445.4	333.0	258.9	205.7	239.1	251.5
55°	2524.4	1353.6	189.1	244.7	384.9	403.4	321.9	258.2	191.5	186.0	184.1
57.5°	2464.5	1189.9	135.3	176.1	295.3	319.4	313.9	253.9	169.9	169.3	171.8
60°	1904.7	725.9	92.7	111.8	181.0	203.9	284.8	242.8	146.4	134.7	135.3
62.5°	1082.4	308.9	63.6	69.2	92.7	110.0	217.5	220.6	135.3	128.5	135.3
65°	376.9	110.6	49.4	46.3	51.3	58.7	124.8	170.5	122.9	111.2	112.4
67.5°	77.8	55.0	43.9	38.3	38.3	38.3	63.6	106.3	101.3	88.3	89.6
70°	49.4	47.0	38.3	32.7	31.5	29.0	36.5	58.7	69.8	64.3	64.9
72.5°	36.5	35.8	30.3	26.6	23.5	21.0	22.9	29.0	35.8	37.1	37.7
75°	22.2	22.9	19.8	16.7	14.8	13.0	13.6	13.6	13.6	12.4	13.6
77.5°	6.8	7.4	6.2	4.9	4.3	4.3	4.3	3.7	3.1	1.9	1.9
80°	1.9	1.9	1.9	1.9	1.9	1.2	1.2	0.6	0.6	0.0	0.0
82.5°	1.9	1.9	1.9	1.9	1.2	1.2	0.6	0.6	0.0	0.0	0.0
85°	1.9	1.9	1.9	1.9	1.2	1.2	0.6	0.6	0.0	0.0	0.0
87.5°	1.9	1.9	1.9	1.9	1.2	1.2	0.6	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)