

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: P630360

Luminaire Tested: GWS-SA1D-740-U-T3R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630360  
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-SA1D-740-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) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

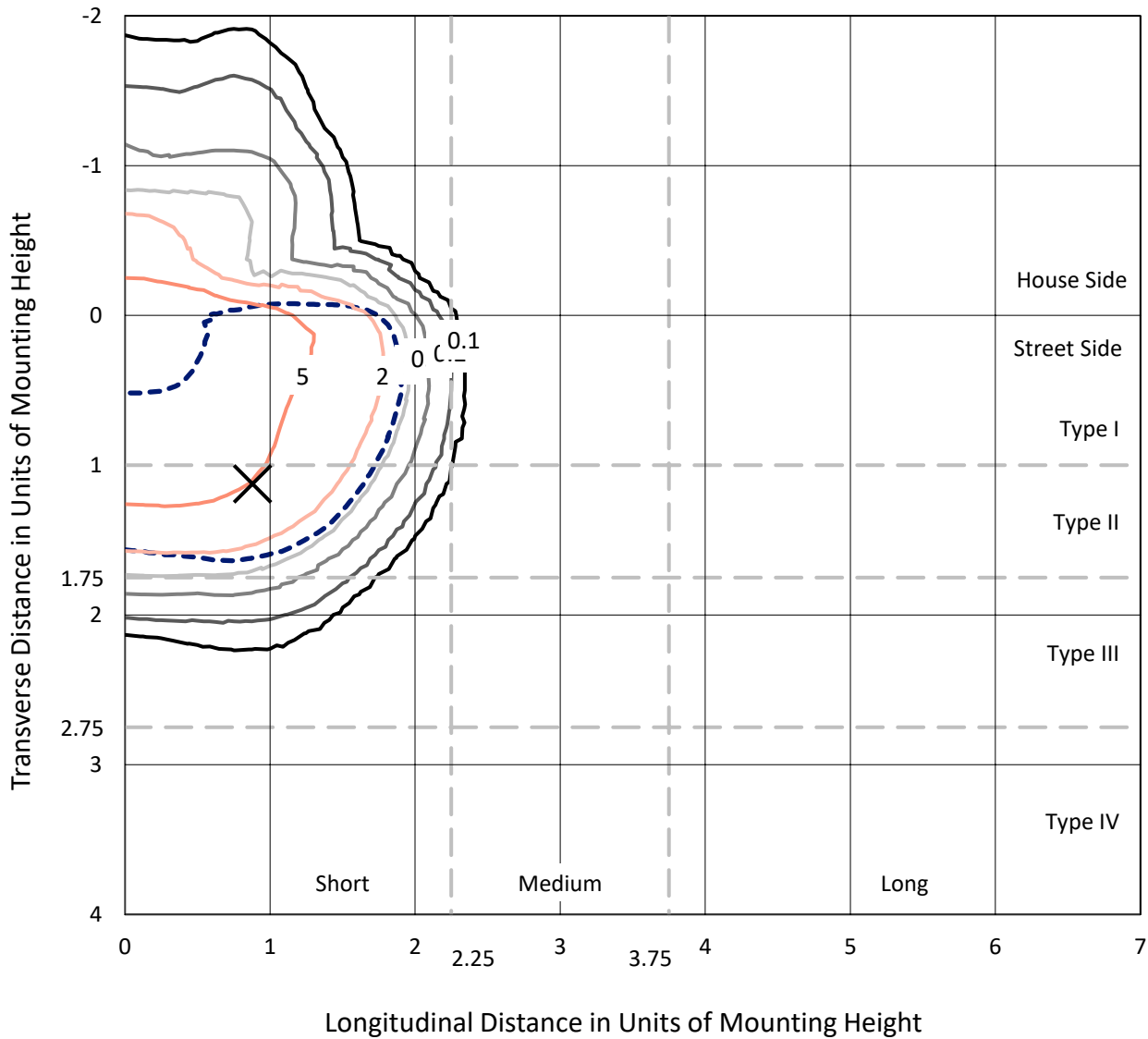
Lumens per Lamp: N/A  
Luminaire Lumens: 3803.1 lumens  
Efficiency: N/A  
Efficacy: 85.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 44.3  
Input Voltage (V): 120  
Input Current (Ain): 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

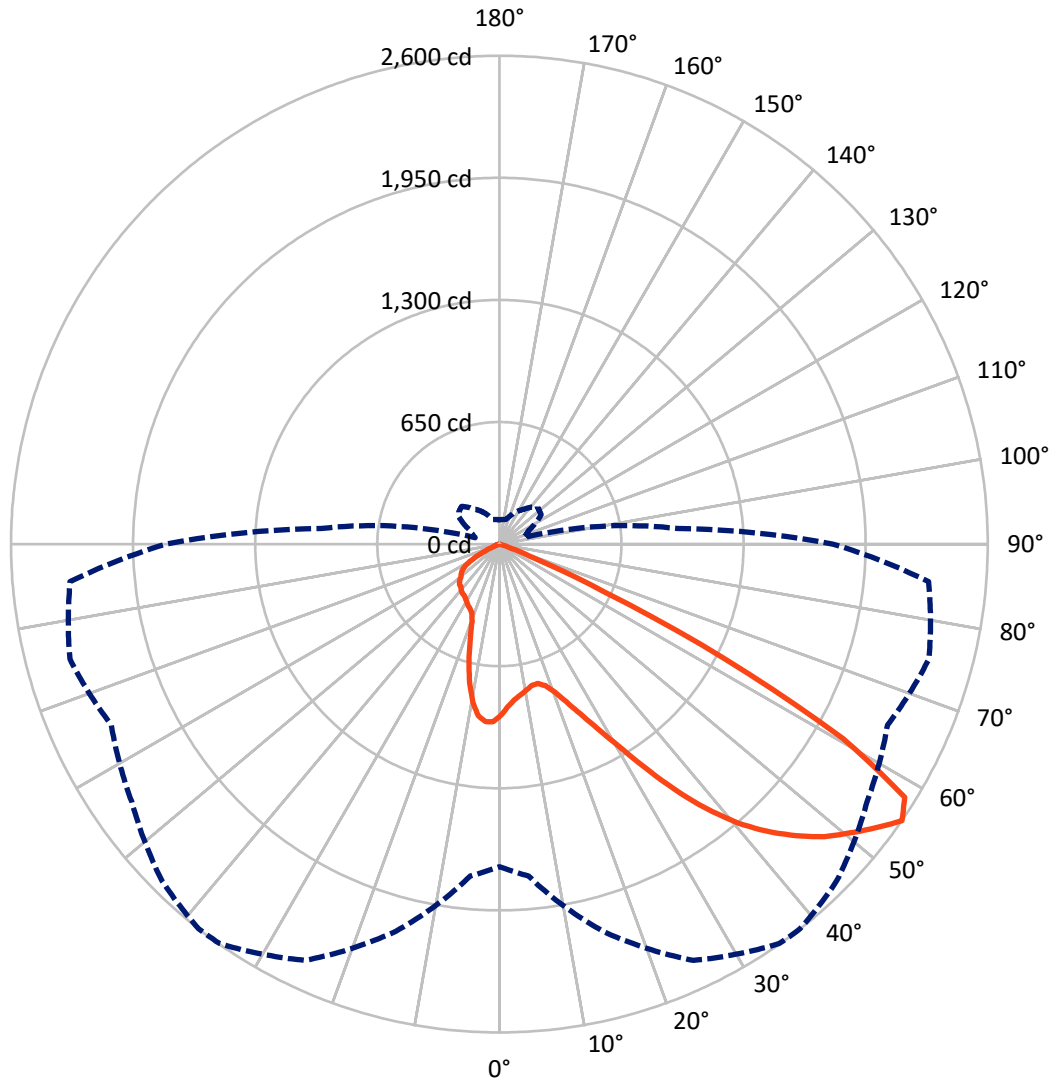
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.5 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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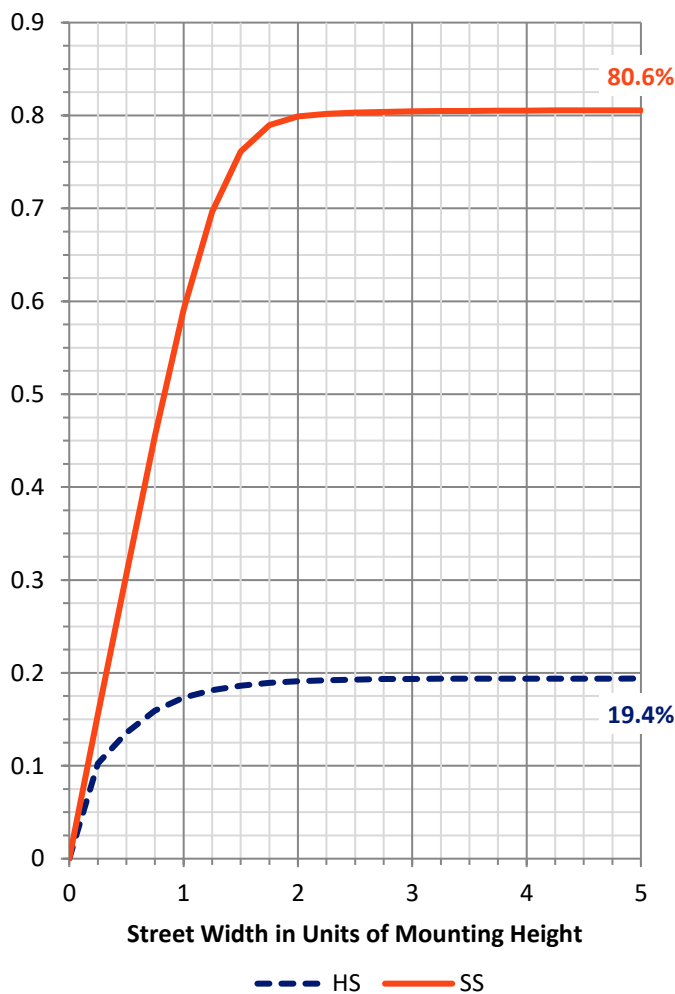
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	741.0	0.0	741.0
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	3062.1	0.0	3062.1
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	3803.1	0.0	3803.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.3	2.2
10°-20°	227.0	6.0
20°-30°	389.6	10.2
30°-40°	646.1	17.0
40°-50°	949.9	25.0
50°-60°	1109.9	29.2
60°-70°	376.2	9.9
70°-80°	19.2	0.5
80°-90°	0.8	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°	3803.1	100.0
0°-180°	3803.1	100.0

**Coefficient of Utilization**



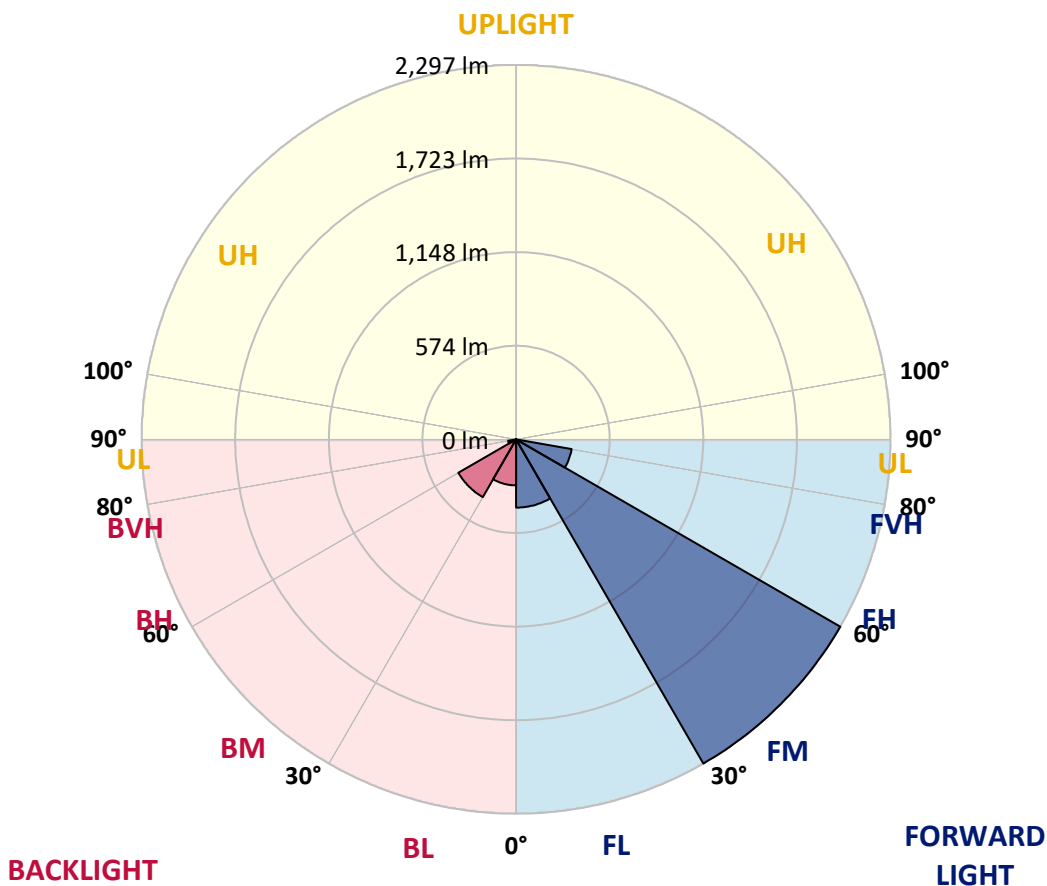
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	418.6	11.0			
FM (30°-60°)	2297.0	60.4			
FH (60°-80°)	346.1	9.1			G0/660
FVH (80°-90°)	0.4	0.0			G0/10
BL (0°-30°)	282.3	7.4	B1/500		
BM (30°-60°)	409.0	10.8	B1/1000		
BH (60°-80°)	49.3	1.3	B0/110		G0/110
BVH (80°-90°)	0.4	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°	912.0	912.0	912.0	912.0	912.0	912.0	912.0	912.0	912.0	912.0	912.0
2.5°	849.4	847.7	851.2	858.1	864.6	866.8	873.3	882.5	888.1	901.6	912.4
5°	811.2	810.3	813.8	819.9	828.5	831.6	841.6	856.8	872.0	895.5	918.5
7.5°	776.4	775.9	781.2	794.6	807.2	811.2	823.3	842.0	862.5	898.5	932.4
10°	730.7	731.2	741.2	760.3	783.3	791.2	810.7	837.7	864.2	910.7	957.7
12.5°	716.0	716.8	722.0	736.8	762.0	772.0	799.4	840.3	874.2	928.1	990.3
15°	752.0	752.0	747.7	749.4	760.7	769.9	798.6	849.0	891.1	949.0	1022.4
17.5°	822.0	819.4	808.6	793.8	789.9	792.9	815.9	867.7	915.1	973.3	1058.9
20°	916.8	917.7	896.4	865.5	840.7	840.3	854.2	900.7	949.4	1002.4	1098.5
22.5°	1031.6	1028.1	999.8	957.7	914.6	911.1	916.8	951.1	999.0	1048.5	1147.2
25°	1164.6	1162.8	1122.8	1066.3	1009.4	1001.1	1001.1	1035.0	1069.8	1114.2	1205.4
27.5°	1303.7	1303.7	1265.0	1199.8	1124.1	1109.4	1107.2	1147.2	1170.2	1178.9	1254.6
30°	1446.7	1445.0	1406.7	1339.8	1258.9	1243.7	1237.6	1267.2	1283.7	1257.6	1315.9
32.5°	1591.9	1594.9	1556.2	1494.1	1421.9	1411.9	1393.2	1393.2	1406.7	1370.2	1412.4
35°	1748.0	1747.1	1716.7	1674.5	1612.8	1601.5	1570.6	1522.3	1542.8	1526.7	1545.8
37.5°	1885.8	1892.3	1877.5	1846.2	1796.2	1784.9	1734.0	1646.7	1662.3	1687.5	1704.5
40°	2025.7	2030.9	2045.7	2035.7	1972.7	1951.8	1861.4	1718.0	1735.3	1821.9	1870.5
42.5°	2163.1	2165.7	2195.7	2212.2	2127.9	2091.4	1957.9	1761.4	1779.7	1927.1	2012.3
45°	2250.5	2256.1	2305.7	2356.1	2264.8	2214.8	2041.8	1817.1	1824.9	2000.1	2117.0
47.5°	2247.0	2260.0	2353.1	2444.8	2382.6	2328.7	2142.7	1906.2	1893.1	2068.8	2186.1
50°	2177.0	2192.7	2326.1	2471.7	2467.4	2417.4	2254.8	2035.3	1994.4	2129.6	2194.8
52.5°	2031.8	2077.0	2278.7	2475.2	2535.6	2510.4	2393.5	2209.2	2131.4	2217.0	2208.7
55°	1718.0	1773.6	2134.8	2445.7	2597.4	2600.4	2539.1	2390.4	2280.0	2367.4	2294.4
57.5°	1304.1	1348.5	1643.2	2177.0	2495.2	2545.2	2595.6	2486.1	2371.8	2470.0	2314.4
60°	785.9	837.2	1028.9	1597.5	2015.3	2100.5	2298.3	2277.0	2139.2	2181.4	1897.9
62.5°	318.6	345.6	475.1	880.3	1268.5	1348.0	1537.6	1569.7	1535.8	1492.8	1151.1
65°	116.5	127.4	190.4	363.8	583.4	612.5	712.5	769.4	816.4	695.1	428.2
67.5°	72.2	79.1	123.9	186.9	212.1	197.4	200.8	239.5	228.7	141.3	76.5
70°	53.5	59.1	96.9	129.5	85.6	66.1	44.8	47.8	43.0	37.8	37.4
72.5°	36.9	42.2	72.6	76.5	33.0	23.5	16.5	23.0	26.1	25.6	26.5
75°	24.3	28.3	45.6	30.0	8.3	6.5	5.7	12.2	15.6	15.6	16.1
77.5°	14.3	16.5	16.1	6.1	1.7	1.7	1.3	2.2	3.5	3.9	4.8
80°	1.7	1.3	0.9	0.9	0.9	0.9	0.9	0.9	1.3	1.3	1.3
82.5°	0.4	0.4	0.4	0.9	0.9	0.9	0.9	0.9	0.9	1.3	1.3
85°	0.0	0.0	0.4	0.4	0.9	0.9	0.9	0.9	0.9	1.3	1.3
87.5°	0.0	0.0	0.4	0.4	0.9	0.9	0.9	0.9	0.9	1.3	1.3
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°	912.0	912.0	912.0	912.0	912.0	912.0	912.0	912.0	912.0	912.0	912.0
2.5°	920.7	917.7	930.3	939.4	946.8	950.3	945.5	945.1	945.1	935.5	932.9
5°	931.6	932.9	950.7	958.5	959.8	955.5	944.6	937.2	932.9	922.9	917.2
7.5°	952.4	956.8	973.7	972.4	960.7	940.7	912.0	889.8	875.5	859.8	850.3
10°	982.4	990.7	1001.1	982.9	945.5	894.6	835.5	793.3	768.1	750.3	739.4
12.5°	1019.0	1027.2	1023.7	980.7	902.9	812.0	736.0	675.1	646.0	629.9	618.6
15°	1055.9	1061.1	1038.5	954.6	827.7	705.5	620.8	560.3	524.7	511.6	502.1
17.5°	1093.7	1092.4	1041.1	903.3	727.3	585.5	502.1	460.8	450.8	448.6	447.7
20°	1133.3	1121.5	1030.7	829.9	606.4	466.9	419.5	422.1	440.4	449.1	450.8
22.5°	1178.5	1148.9	1004.6	730.3	483.0	389.1	393.8	419.5	444.3	456.0	457.7
25°	1226.7	1174.1	961.1	602.5	380.8	357.8	386.0	415.6	442.1	456.4	458.2
27.5°	1258.5	1180.2	889.8	473.8	326.9	345.6	375.6	403.8	431.2	446.9	449.1
30°	1292.8	1177.6	792.9	365.2	308.6	335.2	361.2	386.9	412.1	429.5	431.2
32.5°	1343.2	1175.9	674.7	296.5	301.3	326.9	346.0	367.3	384.7	394.7	393.4
35°	1409.3	1173.7	536.9	267.3	296.9	320.4	335.6	345.6	326.5	320.4	321.7
37.5°	1494.1	1178.9	420.8	255.2	295.6	318.6	331.7	303.0	273.4	262.1	260.4
40°	1588.0	1192.4	320.8	250.4	299.9	323.0	316.9	269.5	233.0	210.8	206.1
42.5°	1682.3	1207.2	253.9	248.7	307.3	335.2	292.6	245.2	190.4	177.8	176.1
45°	1752.3	1204.6	219.5	245.6	313.9	342.1	286.0	210.4	170.0	164.3	164.8
47.5°	1787.5	1175.9	200.8	238.7	316.5	335.2	270.0	196.1	156.1	162.1	167.4
50°	1768.8	1101.5	183.4	225.2	310.8	326.0	244.3	185.2	149.1	174.3	186.1
52.5°	1746.2	1010.3	164.3	204.3	297.3	313.4	234.3	182.1	144.8	168.2	176.9
55°	1776.2	952.4	133.0	172.1	270.8	283.9	226.5	181.7	134.8	130.8	129.5
57.5°	1734.0	837.2	95.2	123.9	207.8	224.7	220.8	178.7	119.5	119.1	120.8
60°	1340.2	510.8	65.2	78.7	127.4	143.5	200.4	170.8	103.0	94.8	95.2
62.5°	761.6	217.4	44.8	48.7	65.2	77.4	153.0	155.2	95.2	90.4	95.2
65°	265.2	77.8	34.8	32.6	36.1	41.3	87.8	120.0	86.5	78.2	79.1
67.5°	54.8	38.7	30.9	27.0	27.0	27.0	44.8	74.8	71.3	62.2	63.0
70°	34.8	33.0	27.0	23.0	22.2	20.4	25.6	41.3	49.1	45.2	45.6
72.5°	25.6	25.2	21.3	18.7	16.5	14.8	16.1	20.4	25.2	26.1	26.5
75°	15.6	16.1	13.9	11.7	10.4	9.1	9.6	9.6	9.6	8.7	9.6
77.5°	4.8	5.2	4.3	3.5	3.0	3.0	3.0	2.6	2.2	1.3	1.3
80°	1.3	1.3	1.3	1.3	1.3	0.9	0.9	0.4	0.4	0.0	0.0
82.5°	1.3	1.3	1.3	1.3	0.9	0.9	0.4	0.4	0.0	0.0	0.0
85°	1.3	1.3	1.3	1.3	0.9	0.9	0.4	0.4	0.0	0.0	0.0
87.5°	1.3	1.3	1.3	1.3	0.9	0.9	0.4	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)