

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: P631932

Luminaire Tested: GWS-SA2B-760-U-SL4-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631932  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2B-760-U-SL4-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

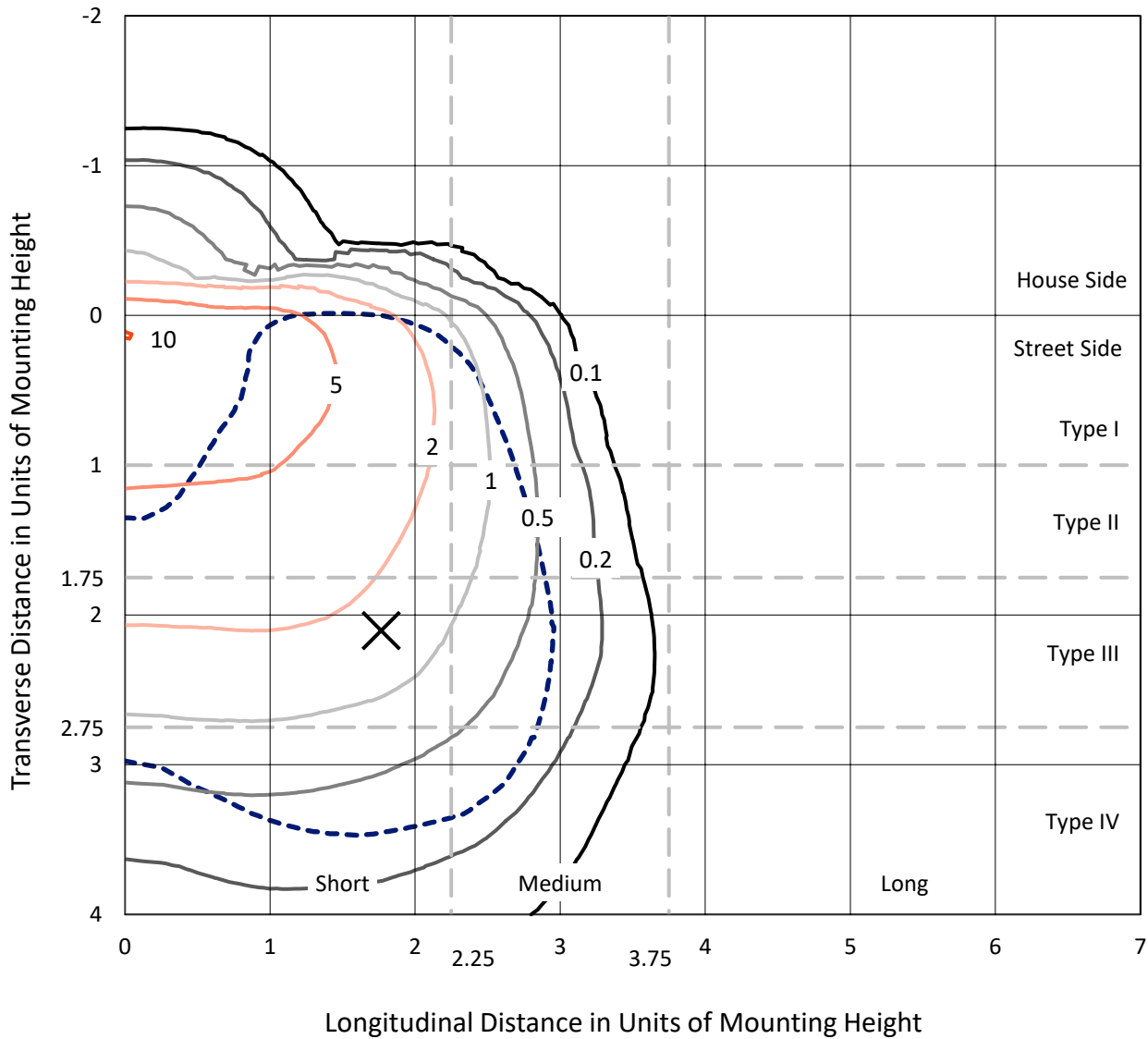
Lumens per Lamp: N/A  
Luminaire Lumens: 5485.9 lumens  
Efficiency: N/A  
Efficacy: 118.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

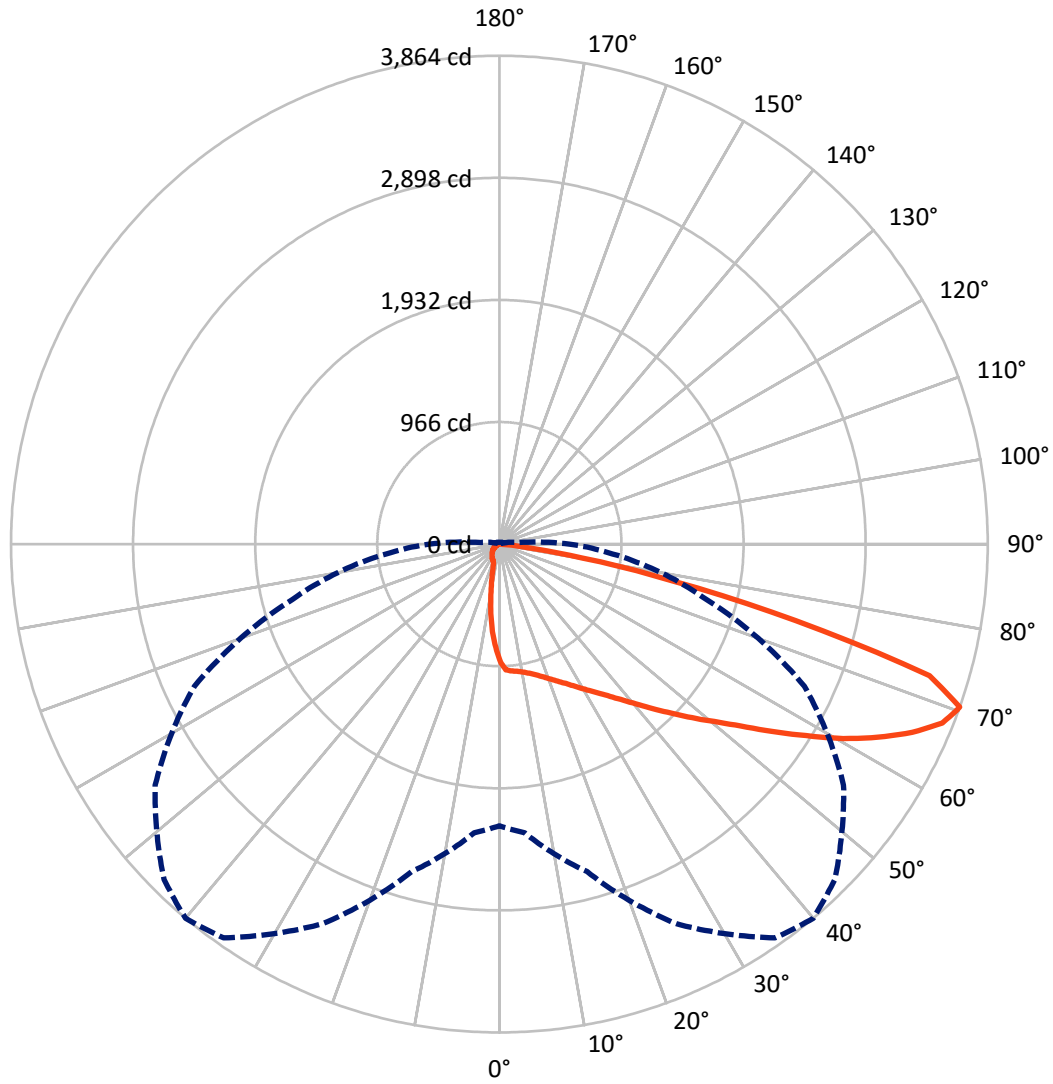
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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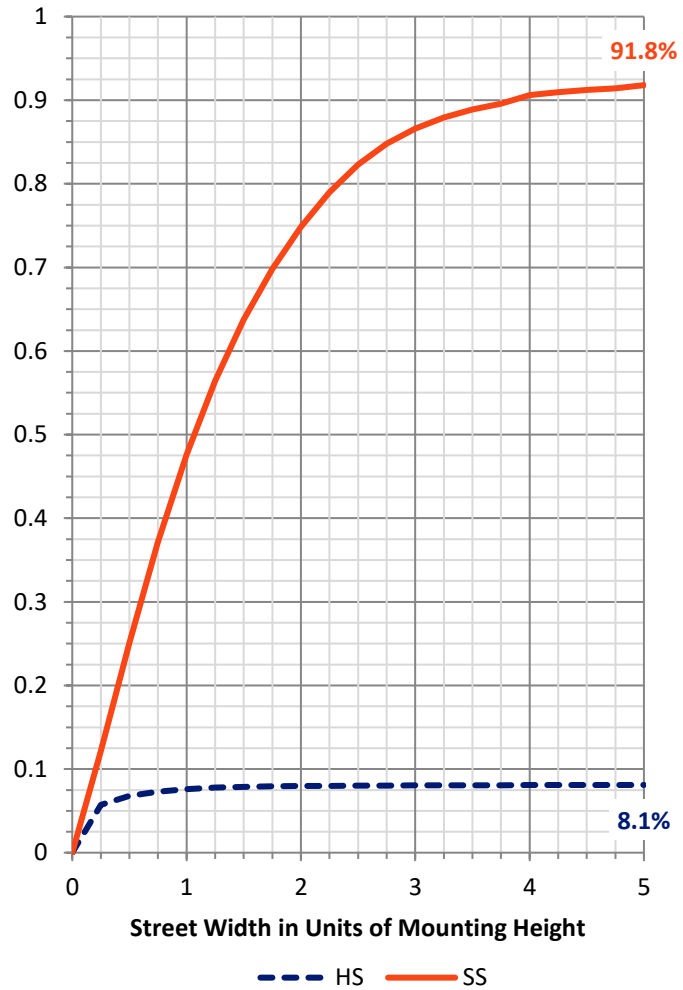
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	448.6	0.0	448.6
	% Fixture	8.2	0.0	8.2
<b>Street Side</b>	Lumens	5037.3	0.0	5037.3
	% Fixture	91.8	0.0	91.8
<b>Total</b>	Lumens	5485.9	0.0	5485.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.7	1.4
10°-20°	199.5	3.6
20°-30°	334.0	6.1
30°-40°	524.5	9.6
40°-50°	829.7	15.1
50°-60°	1210.3	22.1
60°-70°	1500.4	27.4
70°-80°	759.1	13.8
80°-90°	49.6	0.9
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°	5485.9	100.0
0°-180°	5485.9	100.0

**Coefficient of Utilization**



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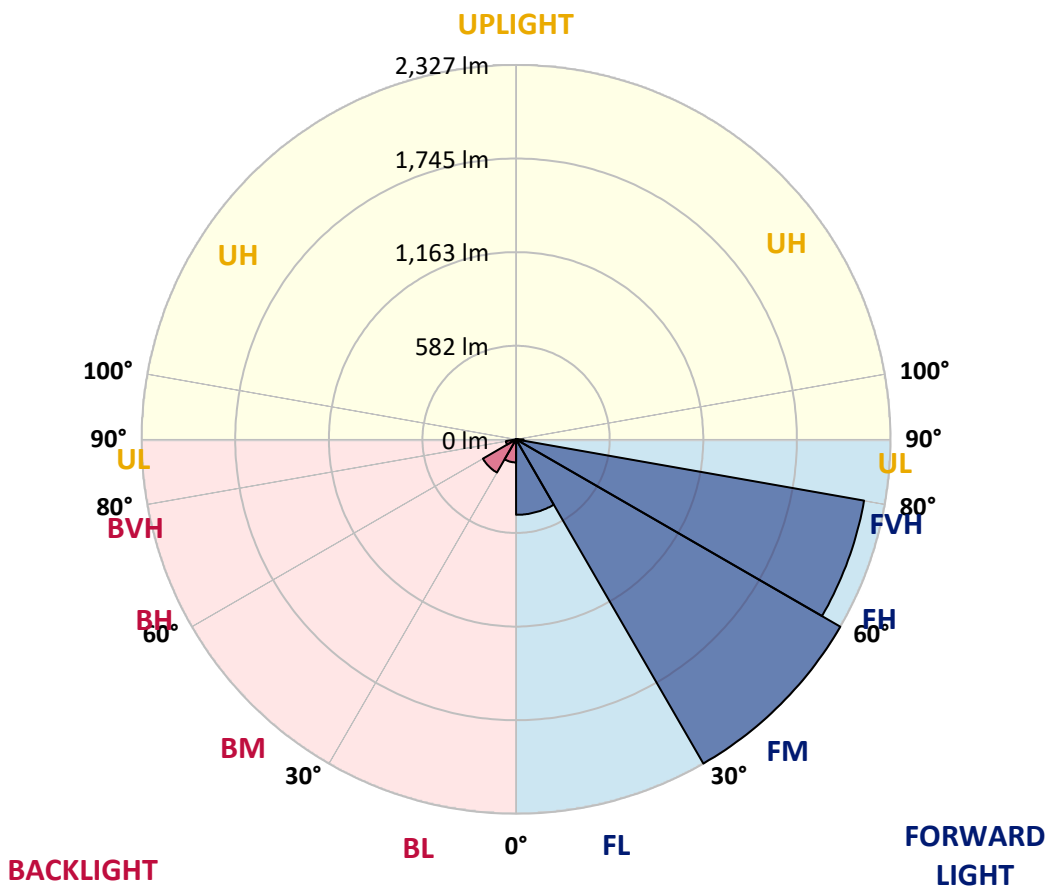
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	468.9	8.5			
FM (30°-60°)	2326.5	42.4			
FH (60°-80°)	2195.6	40.0			G2/5000
FVH (80°-90°)	46.3	0.8			G1/100
BL (0°-30°)	143.3	2.6	B1/500		
BM (30°-60°)	238.1	4.3	B1/1000		
BH (60°-80°)	64.0	1.2	B0/110		G0/110
BVH (80°-90°)	3.3	0.1			G0/10
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°	40°	45°	55°	65°	75°	85°
0°	930.9	930.9	930.9	930.9	930.9	930.9	930.9	930.9	930.9	930.9	930.9
2.5°	1000.8	1004.3	1003.8	1005.3	1001.8	996.3	995.3	987.8	974.3	957.3	938.4
5°	1021.2	1025.2	1022.2	1020.7	1014.2	1008.3	1006.8	998.8	983.3	960.3	927.4
7.5°	1038.7	1039.7	1037.7	1034.2	1024.7	1016.7	1011.3	1000.3	981.8	958.8	920.9
10°	1041.7	1041.2	1042.2	1042.7	1036.7	1029.7	1025.2	1010.3	986.8	962.3	921.4
12.5°	1038.2	1038.2	1044.7	1052.2	1052.2	1048.7	1044.2	1030.7	1003.3	974.3	931.4
15°	1042.7	1044.2	1056.7	1070.6	1075.1	1071.6	1069.7	1055.7	1027.2	995.3	949.4
17.5°	1058.7	1060.2	1080.1	1101.1	1106.6	1102.6	1098.6	1084.6	1054.2	1019.2	969.8
20°	1082.1	1086.1	1111.6	1138.5	1143.5	1138.5	1130.5	1111.1	1080.6	1045.2	989.3
22.5°	1125.1	1127.6	1155.0	1183.5	1186.0	1178.0	1166.0	1139.0	1107.1	1072.6	1011.3
25°	1182.0	1185.5	1212.9	1240.4	1233.9	1221.9	1205.4	1175.0	1138.5	1105.1	1039.2
27.5°	1249.8	1253.8	1280.8	1304.7	1287.8	1273.8	1255.3	1217.4	1180.5	1150.0	1075.1
30°	1323.2	1326.7	1350.7	1372.1	1349.7	1333.2	1311.2	1272.3	1234.9	1211.9	1126.1
32.5°	1394.1	1393.6	1416.6	1434.0	1411.1	1398.1	1378.1	1338.7	1308.7	1298.8	1201.9
35°	1460.0	1460.0	1478.9	1496.4	1479.9	1473.0	1454.5	1423.0	1406.1	1418.0	1303.2
37.5°	1526.4	1522.9	1540.8	1560.3	1558.8	1559.3	1548.8	1533.8	1534.8	1577.3	1442.5
40°	1581.3	1579.8	1600.7	1626.2	1646.2	1662.1	1655.6	1661.1	1692.6	1771.9	1620.7
42.5°	1625.2	1628.7	1655.6	1696.1	1746.5	1778.9	1783.4	1805.9	1886.7	2009.5	1821.9
45°	1675.6	1676.1	1713.5	1775.4	1855.8	1907.2	1925.2	1983.1	2097.9	2256.1	2042.5
47.5°	1737.5	1731.5	1773.4	1860.3	1976.6	2052.5	2084.4	2156.8	2334.5	2496.7	2222.2
50°	1805.9	1794.9	1842.3	1960.6	2111.9	2206.7	2271.6	2377.4	2569.1	2694.3	2355.9
52.5°	1885.2	1874.8	1928.7	2075.9	2274.1	2389.4	2472.7	2579.5	2770.2	2845.1	2435.8
55°	1986.1	1975.6	2032.5	2214.2	2465.7	2615.5	2702.8	2792.7	2957.4	2956.4	2493.7
57.5°	2097.9	2083.4	2162.3	2388.9	2704.8	2860.6	2949.4	2993.3	3099.6	3042.7	2532.6
60°	2226.2	2213.2	2322.5	2597.0	2980.8	3125.1	3181.0	3163.0	3216.4	3093.7	2519.1
62.5°	2342.0	2336.0	2471.7	2817.6	3243.9	3365.7	3381.2	3302.8	3302.3	3094.7	2428.3
65°	2462.2	2473.7	2675.4	3071.7	3508.4	3590.3	3563.8	3441.6	3336.7	2972.4	2159.8
67.5°	2507.2	2540.6	2809.6	3301.3	3717.1	3781.0	3734.5	3510.9	3193.5	2561.1	1644.7
70°	2229.6	2292.5	2682.9	3314.3	3803.4	3864.3	3753.0	3324.3	2662.4	1696.6	900.9
72.5°	1695.6	1768.9	2235.6	2713.8	3420.6	3559.3	3369.2	2708.3	1716.0	743.2	302.5
75°	948.9	1028.2	1665.1	2043.5	2296.5	2423.3	2353.4	1737.5	760.2	194.2	90.3
77.5°	320.9	347.4	774.7	1264.3	1515.9	1402.1	1186.9	863.0	279.5	73.9	47.9
80°	190.2	200.2	288.5	629.4	797.6	661.4	522.1	318.9	142.3	39.4	33.4
82.5°	56.9	67.4	159.2	233.6	312.5	194.7	164.7	182.2	73.9	21.5	28.0
85°	0.0	0.0	33.9	72.4	81.9	31.9	31.9	103.3	13.5	9.0	20.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.5	1.5	2.0	4.5
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°	930.9	930.9	930.9	930.9	930.9	930.9	930.9	930.9	930.9	930.9	930.9
2.5°	924.9	907.4	887.0	867.5	849.0	825.1	813.6	799.6	787.6	781.2	784.6
5°	906.4	879.0	837.1	794.6	751.7	711.3	674.8	650.4	628.4	616.9	619.4
7.5°	890.5	853.5	788.1	718.8	649.9	580.5	524.1	480.2	446.2	432.3	429.8
10°	883.5	837.1	744.7	644.9	539.1	445.7	365.9	317.5	283.0	266.0	269.0
12.5°	887.0	828.6	707.8	572.5	435.2	326.4	250.1	204.6	180.2	170.2	167.7
15°	897.0	826.6	674.8	498.6	335.9	228.1	172.7	154.2	149.2	148.2	148.2
17.5°	908.4	827.1	640.9	423.8	255.1	169.2	147.7	144.3	142.8	141.8	142.3
20°	919.9	827.1	602.0	347.9	191.7	146.2	140.8	138.3	136.8	136.3	136.3
22.5°	933.9	827.1	558.5	277.5	153.7	138.8	134.3	132.8	131.3	130.8	130.3
25°	950.9	827.6	510.6	217.1	139.8	132.3	128.8	127.3	125.8	124.8	124.8
27.5°	975.3	831.6	457.7	169.2	131.8	126.3	123.3	121.8	120.3	118.8	118.8
30°	1010.8	841.5	398.3	139.8	124.3	119.8	116.8	115.8	114.3	112.8	112.3
32.5°	1063.7	859.0	336.9	125.3	117.3	112.8	109.3	108.3	106.8	105.3	104.8
35°	1137.5	891.0	277.0	116.3	108.3	103.8	101.8	101.3	99.3	97.8	97.8
37.5°	1245.8	942.9	219.6	107.3	100.8	97.3	94.8	93.8	91.8	90.3	89.8
40°	1378.1	1010.3	170.7	100.3	93.8	90.3	87.8	86.4	83.9	81.9	80.9
42.5°	1546.8	1092.6	134.8	92.8	87.3	83.9	81.9	78.9	75.4	72.4	71.9
45°	1722.5	1177.5	111.3	85.9	81.4	78.4	75.9	71.9	66.9	63.4	62.4
47.5°	1857.3	1230.4	97.3	78.4	74.9	72.4	69.4	64.4	58.4	54.4	53.4
50°	1953.6	1238.4	86.8	71.4	69.4	66.9	62.4	56.4	49.9	45.9	44.9
52.5°	2001.0	1202.4	78.4	64.9	63.4	60.9	55.4	48.9	41.9	37.9	36.9
55°	2022.5	1134.5	70.4	59.4	57.4	54.4	48.4	41.4	34.4	30.9	29.9
57.5°	2014.0	1034.2	63.4	53.9	51.4	47.9	41.4	33.9	28.5	25.0	24.5
60°	1951.1	893.5	56.4	48.4	45.4	41.4	34.9	28.0	23.0	20.5	20.0
62.5°	1815.4	718.8	49.4	41.9	39.9	35.9	29.9	23.0	19.0	17.5	17.0
65°	1537.3	508.1	42.4	35.4	34.4	30.4	25.0	19.0	16.5	15.5	15.0
67.5°	1105.1	309.0	35.9	30.4	29.4	26.0	21.0	16.5	15.0	14.5	14.5
70°	555.5	146.2	28.5	25.0	25.0	21.5	18.0	15.0	14.5	14.0	14.0
72.5°	188.7	62.4	21.5	19.5	20.5	18.5	15.5	14.0	14.0	14.0	14.0
75°	64.4	32.9	15.0	14.0	15.0	15.0	13.5	13.5	14.0	14.0	14.0
77.5°	41.9	22.0	10.5	9.5	11.5	11.5	11.5	12.5	13.5	13.5	13.5
80°	34.4	12.0	7.0	6.5	8.5	8.5	9.5	11.5	12.5	12.5	12.5
82.5°	29.4	7.5	4.0	4.5	6.0	6.5	8.0	9.5	11.0	11.5	11.5
85°	20.0	4.0	3.0	3.5	4.0	5.0	6.5	8.0	9.0	10.0	10.0
87.5°	5.5	1.5	2.0	2.5	2.5	3.5	5.0	6.0	7.0	7.5	7.5
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)