

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: P629844

Luminaire Tested: GWS-SA1C-740-U-SL4-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P629844  
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-SA1C-740-U-SL4-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (16) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

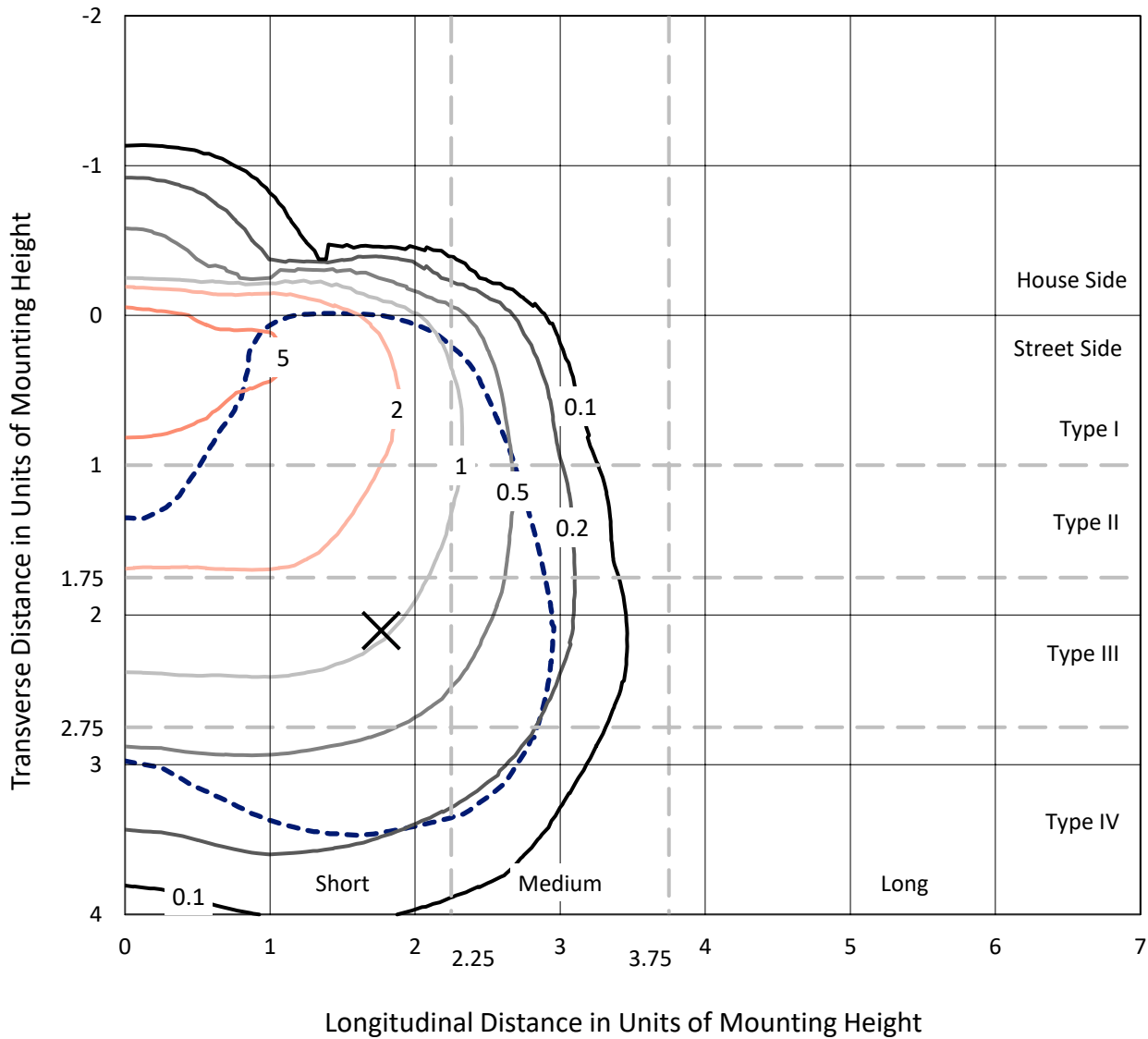
Lumens per Lamp: N/A  
Luminaire Lumens: 3787.2 lumens  
Efficiency: N/A  
Efficacy: 111.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 34.1  
Input Voltage (V): 120  
Input Current (Ain): 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

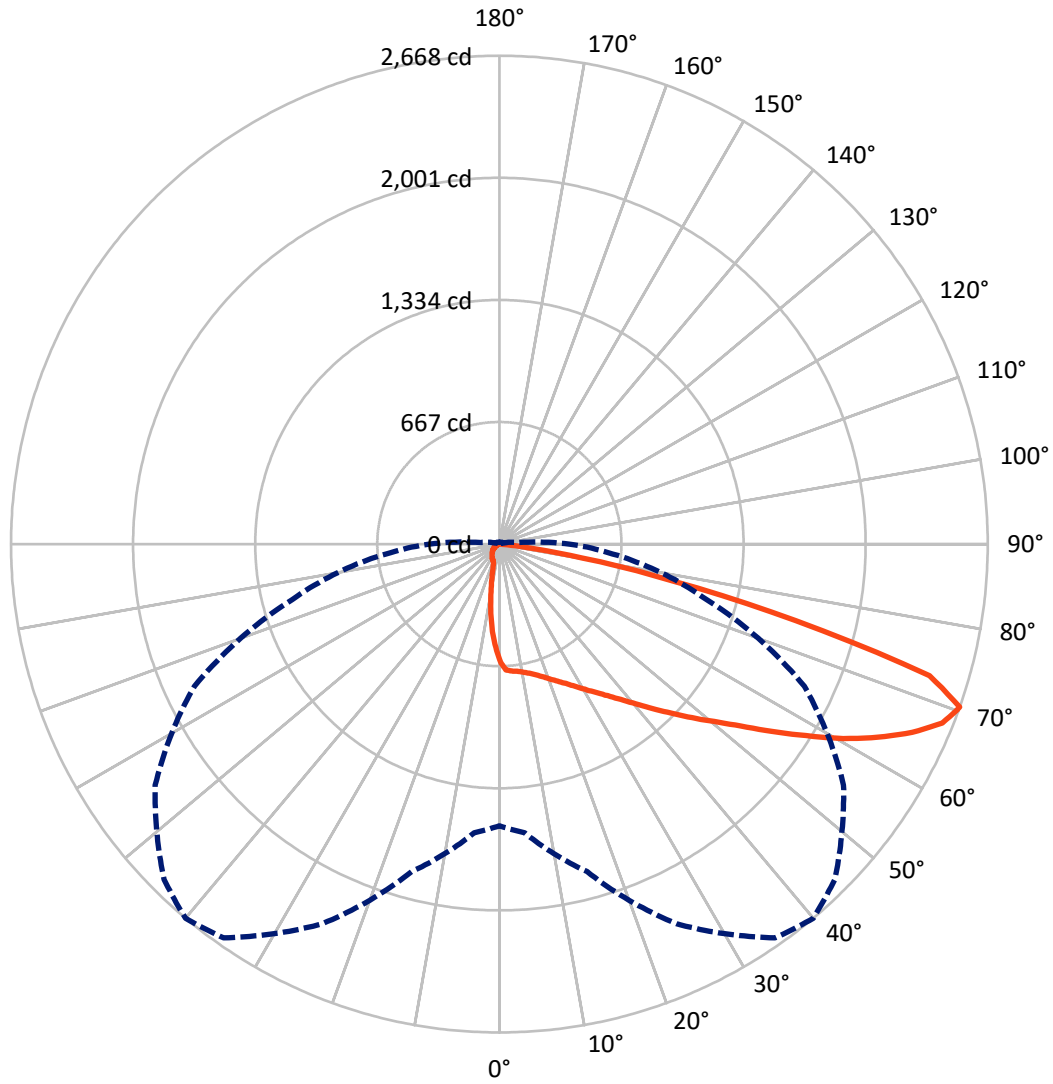
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7 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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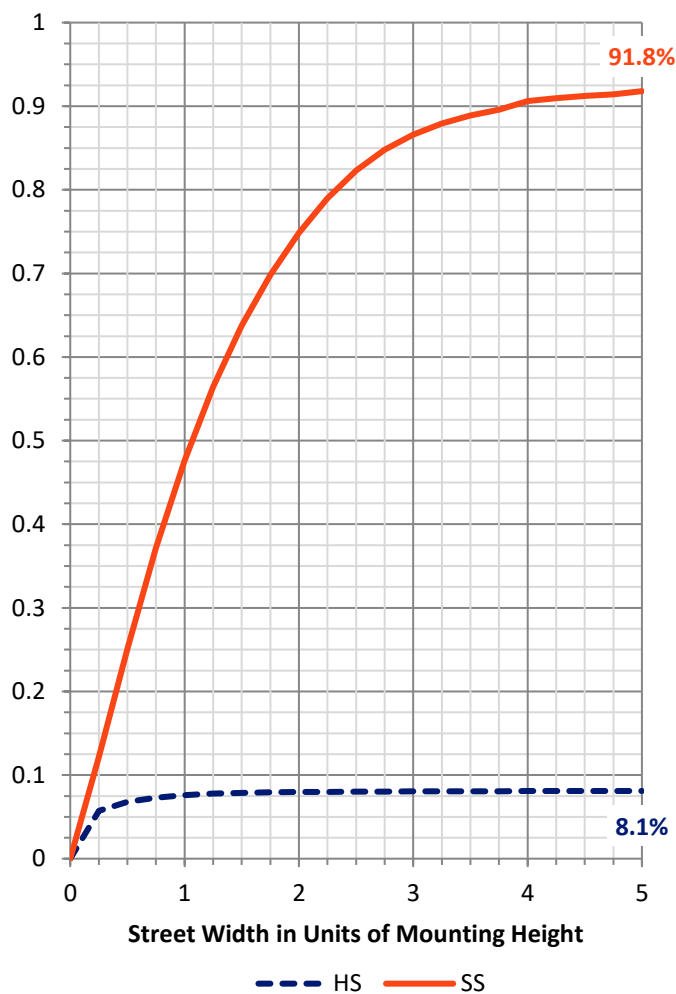
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	309.7	0.0	309.7
	% Fixture	8.2	0.0	8.2
<b>Street Side</b>	Lumens	3477.5	0.0	3477.5
	% Fixture	91.8	0.0	91.8
<b>Total</b>	Lumens	3787.2	0.0	3787.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.3	1.4
10°-20°	137.8	3.6
20°-30°	230.6	6.1
30°-40°	362.1	9.6
40°-50°	572.8	15.1
50°-60°	835.6	22.1
60°-70°	1035.8	27.4
70°-80°	524.0	13.8
80°-90°	34.2	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°	3787.2	100.0
0°-180°	3787.2	100.0

**Coefficient of Utilization**



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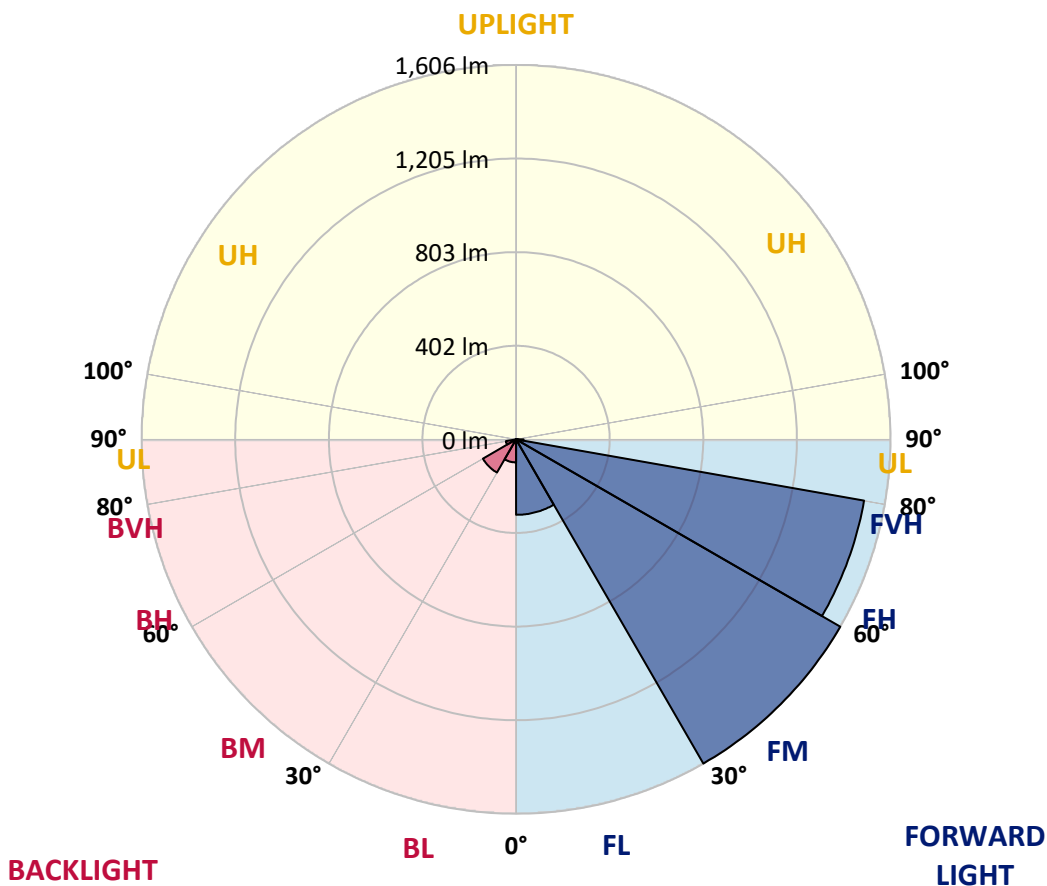
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	323.7	8.5			
FM (30°-60°)	1606.1	42.4			
FH (60°-80°)	1515.7	40.0			G1/1800
FVH (80°-90°)	32.0	0.8			G1/100
BL (0°-30°)	98.9	2.6	B0/110		
BM (30°-60°)	164.4	4.3	B0/220		
BH (60°-80°)	44.1	1.2	B0/110		G0/110
BVH (80°-90°)	2.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	642.6	642.6	642.6	642.6	642.6	642.6	642.6	642.6	642.6	642.6	642.6
2.5°	690.9	693.3	693.0	694.0	691.6	687.8	687.1	681.9	672.6	660.9	647.8
5°	705.0	707.8	705.7	704.7	700.2	696.1	695.0	689.5	678.8	663.0	640.2
7.5°	717.1	717.8	716.4	714.0	707.4	701.9	698.1	690.5	677.8	661.9	635.8
10°	719.1	718.8	719.5	719.8	715.7	710.9	707.8	697.4	681.2	664.4	636.1
12.5°	716.7	716.7	721.2	726.4	726.4	724.0	720.9	711.6	692.6	672.6	643.0
15°	719.8	720.9	729.5	739.1	742.2	739.8	738.4	728.8	709.1	687.1	655.4
17.5°	730.9	731.9	745.7	760.1	763.9	761.2	758.4	748.8	727.8	703.6	669.5
20°	747.1	749.8	767.4	786.0	789.4	786.0	780.5	767.0	746.0	721.6	683.0
22.5°	776.7	778.4	797.4	817.0	818.7	813.2	804.9	786.3	764.3	740.5	698.1
25°	816.0	818.4	837.3	856.3	851.8	843.5	832.2	811.1	786.0	762.9	717.4
27.5°	862.8	865.6	884.2	900.7	889.0	879.4	866.6	840.4	814.9	793.9	742.2
30°	913.5	915.9	932.4	947.3	931.7	920.4	905.2	878.3	852.5	836.6	777.4
32.5°	962.4	962.1	977.9	990.0	974.1	965.2	951.4	924.2	903.5	896.6	829.7
35°	1007.9	1007.9	1021.0	1033.1	1021.7	1016.9	1004.1	982.4	970.7	979.0	899.7
37.5°	1053.7	1051.3	1063.7	1077.2	1076.1	1076.5	1069.2	1058.9	1059.6	1088.9	995.8
40°	1091.6	1090.6	1105.1	1122.6	1136.4	1147.5	1143.0	1146.8	1168.5	1223.3	1118.9
42.5°	1122.0	1124.4	1143.0	1170.9	1205.7	1228.1	1231.2	1246.7	1302.5	1387.3	1257.7
45°	1156.8	1157.1	1182.9	1225.7	1281.1	1316.6	1329.0	1369.0	1448.3	1557.5	1410.0
47.5°	1199.5	1195.3	1224.3	1284.3	1364.5	1416.9	1439.0	1488.9	1611.6	1723.6	1534.1
50°	1246.7	1239.1	1271.8	1353.5	1457.9	1523.4	1568.2	1641.2	1773.6	1860.0	1626.4
52.5°	1301.5	1294.2	1331.5	1433.1	1569.9	1649.5	1707.1	1780.8	1912.4	1964.1	1681.6
55°	1371.1	1363.8	1403.1	1528.6	1702.2	1805.6	1865.9	1927.9	2041.6	2040.9	1721.5
57.5°	1448.3	1438.3	1492.7	1649.2	1867.3	1974.8	2036.1	2066.4	2139.8	2100.6	1748.4
60°	1536.8	1527.9	1603.3	1792.9	2057.8	2157.4	2196.0	2183.6	2220.5	2135.7	1739.1
62.5°	1616.8	1612.6	1706.4	1945.2	2239.4	2323.5	2334.2	2280.1	2279.7	2136.4	1676.4
65°	1699.8	1707.7	1847.0	2120.5	2422.1	2478.6	2460.3	2375.9	2303.5	2052.0	1491.0
67.5°	1730.8	1753.9	1939.6	2279.1	2566.1	2610.2	2578.2	2423.8	2204.6	1768.0	1135.4
70°	1539.2	1582.7	1852.1	2288.0	2625.7	2667.7	2590.9	2294.9	1838.0	1171.2	622.0
72.5°	1170.5	1221.2	1543.4	1873.5	2361.4	2457.2	2325.9	1869.7	1184.7	513.1	208.8
75°	655.0	709.8	1149.5	1410.7	1585.4	1672.9	1624.7	1199.5	524.8	134.0	62.4
77.5°	221.6	239.8	534.8	872.8	1046.5	967.9	819.4	595.8	193.0	51.0	33.1
80°	131.3	138.2	199.2	434.5	550.6	456.6	360.4	220.2	98.2	27.2	23.1
82.5°	39.3	46.5	109.9	161.3	215.7	134.4	113.7	125.8	51.0	14.8	19.3
85°	0.0	0.0	23.4	50.0	56.5	22.1	22.1	71.3	9.3	6.2	14.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.7	1.0	1.4	3.1
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°	642.6	642.6	642.6	642.6	642.6	642.6	642.6	642.6	642.6	642.6	642.6
2.5°	638.5	626.4	612.3	598.9	586.1	569.6	561.7	552.0	543.7	539.3	541.7
5°	625.8	606.8	577.9	548.6	518.9	491.0	465.9	449.0	433.8	425.9	427.6
7.5°	614.7	589.2	544.1	496.2	448.6	400.7	361.8	331.5	308.1	298.4	296.7
10°	609.9	577.9	514.1	445.2	372.1	307.7	252.6	219.2	195.4	183.7	185.7
12.5°	612.3	572.0	488.6	395.2	300.5	225.4	172.6	141.3	124.4	117.5	115.8
15°	619.2	570.6	465.9	344.2	231.9	157.5	119.2	106.5	103.0	102.3	102.3
17.5°	627.1	571.0	442.4	292.5	176.1	116.8	102.0	99.6	98.5	97.9	98.2
20°	635.1	571.0	415.6	240.2	132.3	101.0	97.2	95.4	94.4	94.1	94.1
22.5°	644.7	571.0	385.6	191.6	106.1	95.8	92.7	91.7	90.6	90.3	89.9
25°	656.4	571.3	352.5	149.9	96.5	91.3	88.9	87.9	86.8	86.1	86.1
27.5°	673.3	574.1	316.0	116.8	91.0	87.2	85.1	84.1	83.0	82.0	82.0
30°	697.8	581.0	275.0	96.5	85.8	82.7	80.6	79.9	78.9	77.9	77.5
32.5°	734.3	593.0	232.6	86.5	81.0	77.9	75.5	74.8	73.7	72.7	72.4
35°	785.3	615.1	191.2	80.3	74.8	71.7	70.3	69.9	68.6	67.5	67.5
37.5°	860.1	650.9	151.6	74.1	69.6	67.2	65.5	64.8	63.4	62.4	62.0
40°	951.4	697.4	117.8	69.3	64.8	62.4	60.6	59.6	57.9	56.5	55.8
42.5°	1067.9	754.3	93.0	64.1	60.3	57.9	56.5	54.4	52.0	50.0	49.6
45°	1189.1	812.9	76.8	59.3	56.2	54.1	52.4	49.6	46.2	43.8	43.1
47.5°	1282.2	849.4	67.2	54.1	51.7	50.0	47.9	44.5	40.3	37.6	36.9
50°	1348.7	854.9	60.0	49.3	47.9	46.2	43.1	38.9	34.5	31.7	31.0
52.5°	1381.4	830.1	54.1	44.8	43.8	42.0	38.2	33.8	28.9	26.2	25.5
55°	1396.2	783.2	48.6	41.0	39.6	37.6	33.4	28.6	23.8	21.4	20.7
57.5°	1390.4	714.0	43.8	37.2	35.5	33.1	28.6	23.4	19.6	17.2	16.9
60°	1347.0	616.8	38.9	33.4	31.4	28.6	24.1	19.3	15.9	14.1	13.8
62.5°	1253.2	496.2	34.1	28.9	27.6	24.8	20.7	15.9	13.1	12.1	11.7
65°	1061.3	350.8	29.3	24.5	23.8	21.0	17.2	13.1	11.4	10.7	10.3
67.5°	762.9	213.3	24.8	21.0	20.3	17.9	14.5	11.4	10.3	10.0	10.0
70°	383.5	101.0	19.6	17.2	17.2	14.8	12.4	10.3	10.0	9.6	9.6
72.5°	130.3	43.1	14.8	13.4	14.1	12.7	10.7	9.6	9.6	9.6	9.6
75°	44.5	22.7	10.3	9.6	10.3	10.3	9.3	9.3	9.6	9.6	9.6
77.5°	28.9	15.2	7.2	6.5	7.9	7.9	7.9	8.6	9.3	9.3	9.3
80°	23.8	8.3	4.8	4.5	5.9	5.9	6.5	7.9	8.6	8.6	8.6
82.5°	20.3	5.2	2.8	3.1	4.1	4.5	5.5	6.5	7.6	7.9	7.9
85°	13.8	2.8	2.1	2.4	2.8	3.4	4.5	5.5	6.2	6.9	6.9
87.5°	3.8	1.0	1.4	1.7	1.7	2.4	3.4	4.1	4.8	5.2	5.2
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)