

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: P629939

Luminaire Tested: GWS-SA1C-760-U-AFL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P629939  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1C-760-U-AFL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (16) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

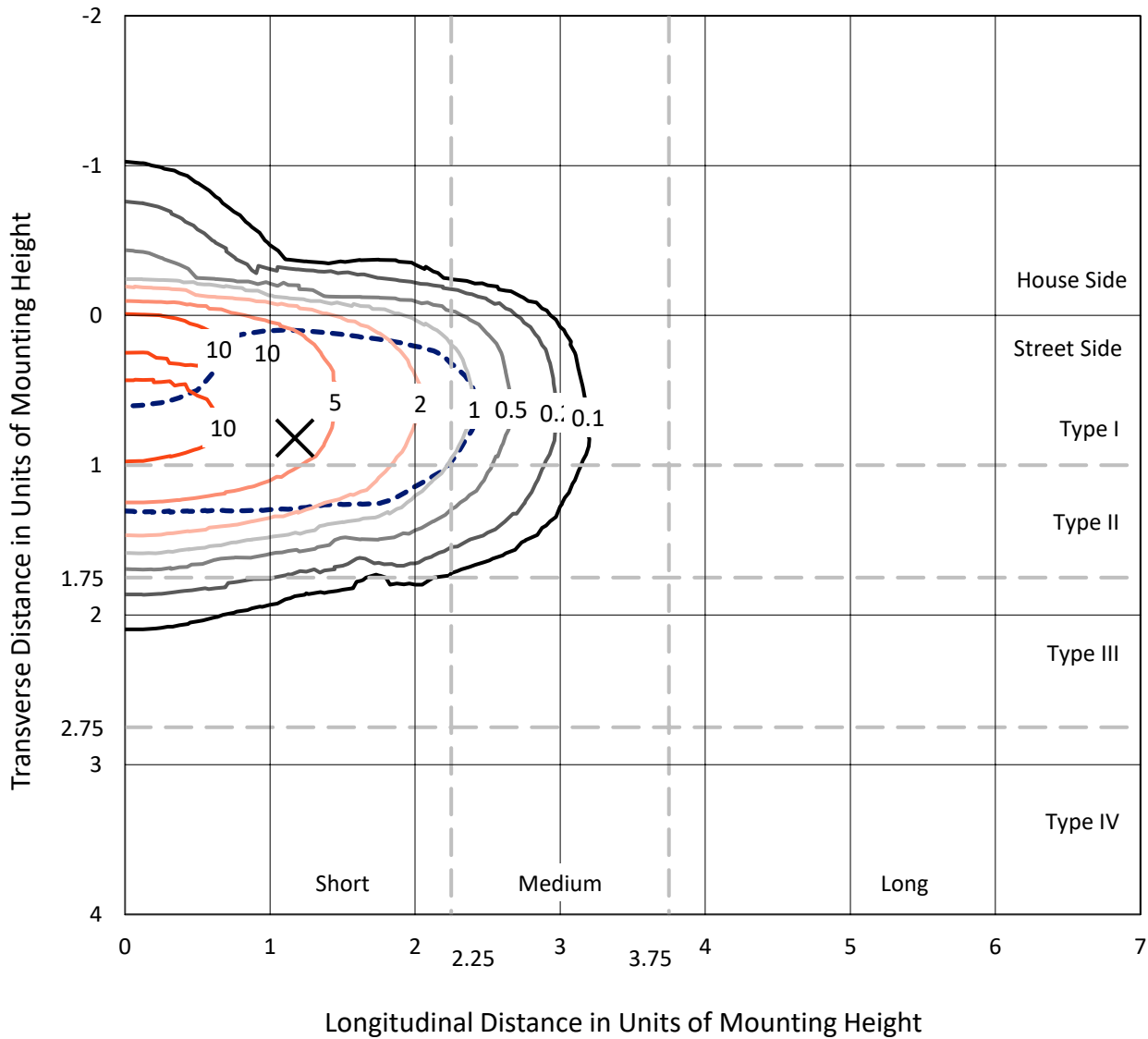
Lumens per Lamp: N/A  
Luminaire Lumens: 4066.6 lumens  
Efficiency: N/A  
Efficacy: 119.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 34.1  
Input Voltage (V): 120  
Input Current (Ain): 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

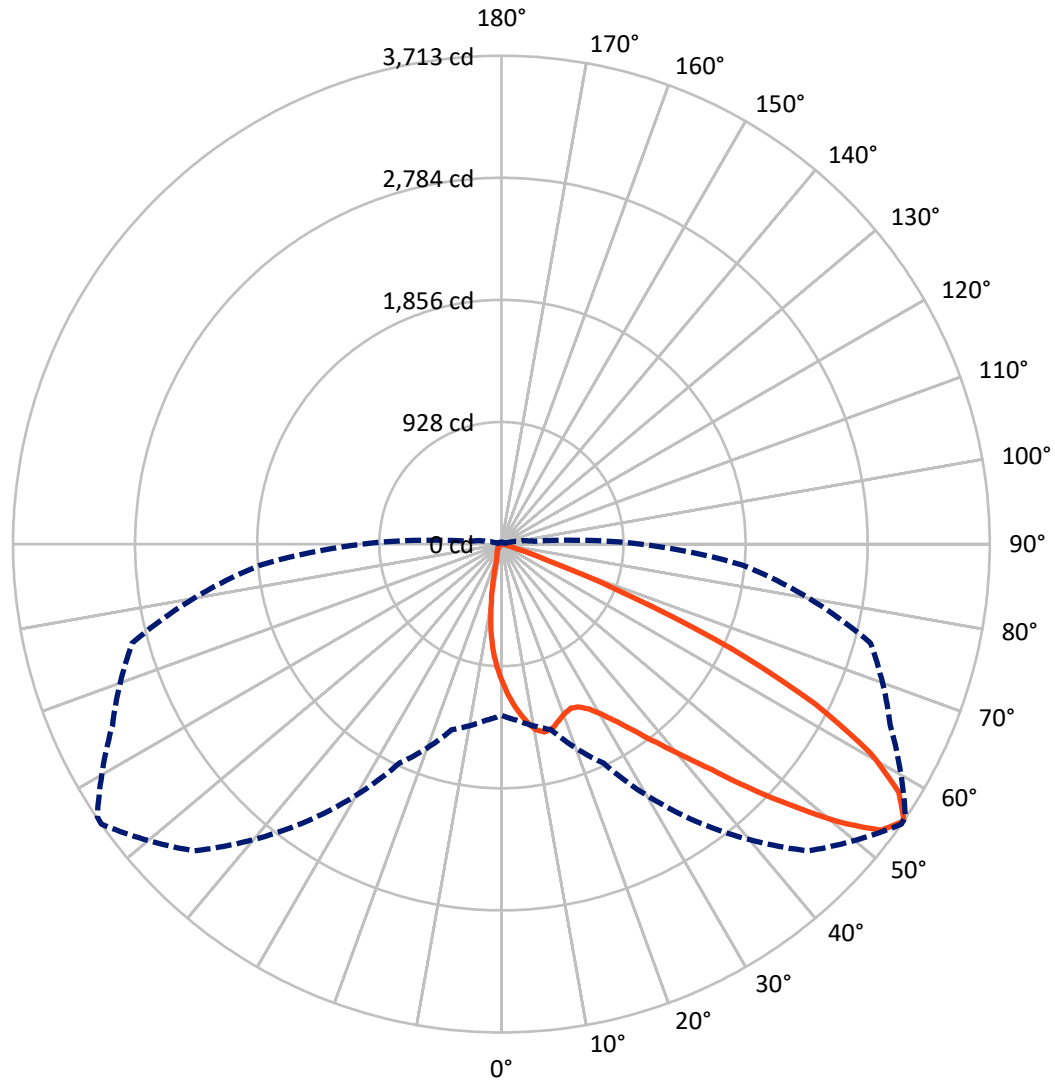
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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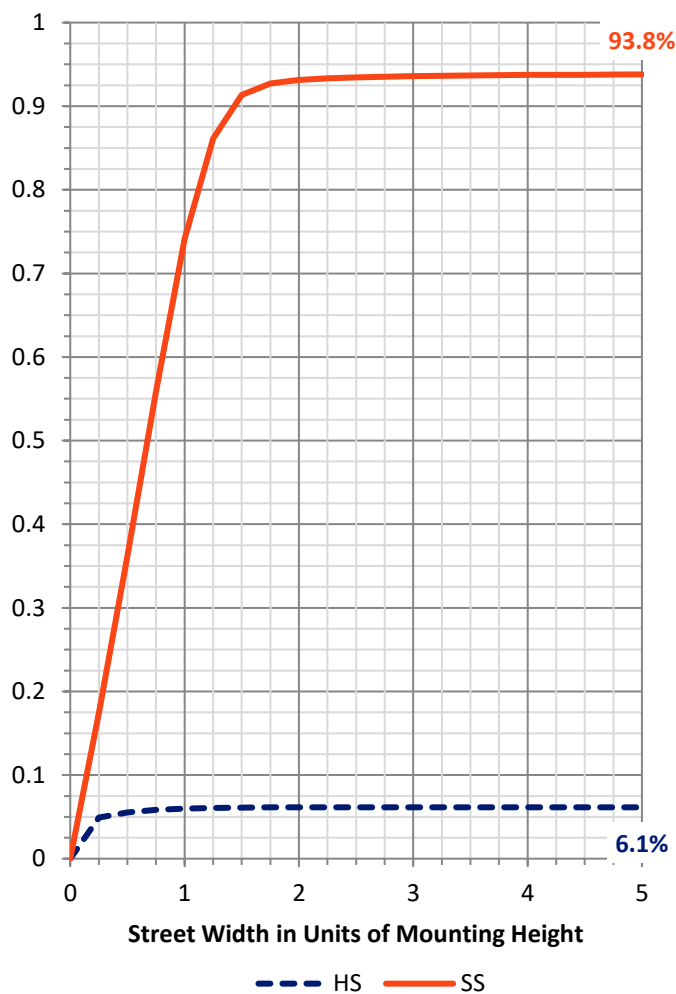
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	250.9	0.0	250.9
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	3815.7	0.0	3815.7
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	4066.6	0.0	4066.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.8	2.3
10°-20°	223.8	5.5
20°-30°	372.8	9.2
30°-40°	635.2	15.6
40°-50°	1036.9	25.5
50°-60°	1085.6	26.7
60°-70°	547.6	13.5
70°-80°	69.2	1.7
80°-90°	2.6	0.1
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°	4066.6	100.0
0°-180°	4066.6	100.0

**Coefficient of Utilization**



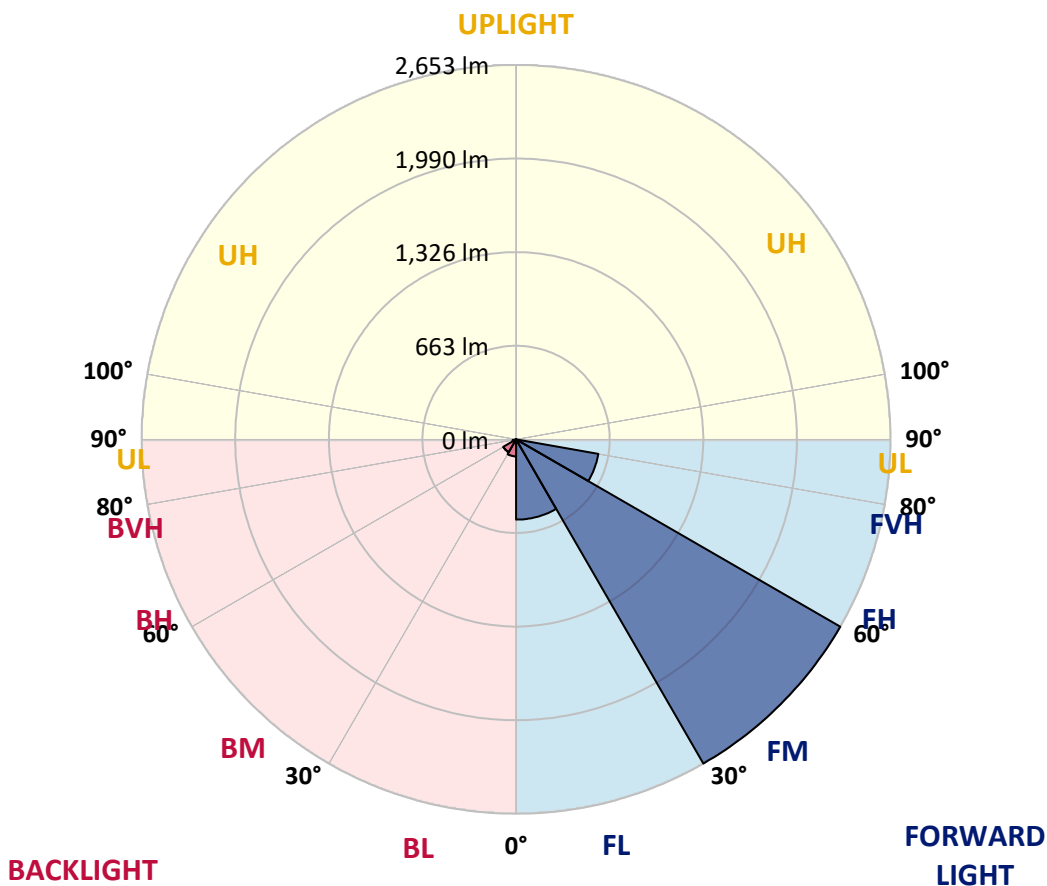
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	568.9	14.0			
FM (30°-60°)	2652.9	65.2			
FH (60°-80°)	591.6	14.5			G0/660
FVH (80°-90°)	2.4	0.1			G0/10
BL (0°-30°)	120.6	3.0	B1/500		
BM (30°-60°)	104.9	2.6	B0/220		
BH (60°-80°)	25.2	0.6	B0/110		G0/110
BVH (80°-90°)	0.2	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°	45°	55°	56°	65°	75°	85°
0°	1050.6	1050.6	1050.6	1050.6	1050.6	1050.6	1050.6	1050.6	1050.6	1050.6	1050.6
2.5°	1224.7	1218.8	1227.9	1217.4	1199.7	1184.8	1165.3	1158.3	1127.1	1097.5	1069.0
5°	1373.5	1375.3	1372.5	1357.9	1332.9	1305.0	1265.8	1257.1	1202.5	1146.2	1085.3
7.5°	1410.4	1409.3	1415.2	1420.8	1416.6	1402.7	1360.0	1351.3	1283.5	1199.0	1110.4
10°	1296.7	1297.4	1309.6	1347.1	1393.7	1442.0	1435.4	1430.5	1364.1	1258.8	1138.2
12.5°	1136.1	1142.3	1155.2	1208.7	1287.7	1397.5	1465.7	1470.5	1438.2	1324.5	1170.9
15°	1066.6	1068.0	1078.4	1110.7	1169.5	1305.0	1452.8	1466.3	1500.1	1390.6	1206.3
17.5°	1064.8	1066.6	1071.1	1085.3	1123.6	1232.4	1411.4	1435.1	1546.7	1461.5	1248.7
20°	1130.2	1129.1	1126.0	1118.4	1135.0	1208.4	1373.2	1399.3	1572.0	1530.7	1291.5
22.5°	1248.7	1247.3	1233.4	1201.8	1188.2	1230.3	1354.4	1378.0	1587.3	1592.2	1326.6
25°	1385.3	1395.1	1369.0	1321.0	1287.7	1286.3	1371.1	1387.8	1600.5	1646.8	1350.6
27.5°	1535.2	1538.3	1516.1	1462.2	1413.9	1376.0	1419.4	1431.9	1615.1	1695.4	1364.1
30°	1699.6	1698.6	1673.2	1610.6	1551.9	1497.3	1500.8	1505.6	1649.2	1751.1	1379.1
32.5°	1905.1	1909.6	1864.4	1779.2	1708.7	1633.2	1607.1	1607.8	1710.7	1822.7	1401.7
35°	2184.2	2173.1	2113.3	1992.0	1871.7	1790.4	1745.9	1742.0	1805.6	1919.0	1441.0
37.5°	2450.2	2451.2	2388.6	2255.1	2103.2	1974.9	1912.0	1901.6	1939.1	2052.5	1506.3
40°	2634.8	2638.2	2612.2	2542.3	2381.3	2199.9	2107.4	2096.6	2112.3	2221.4	1591.8
42.5°	2732.5	2742.2	2749.5	2765.8	2643.8	2480.8	2338.6	2337.5	2321.2	2414.0	1690.9
45°	2736.3	2750.9	2795.4	2907.0	2920.9	2801.3	2646.6	2623.3	2560.4	2620.2	1779.6
47.5°	2585.1	2618.8	2713.3	2934.4	3080.4	3120.1	2966.8	2952.5	2775.9	2783.2	1846.0
50°	2232.6	2267.7	2441.8	2793.6	3120.8	3373.2	3318.2	3288.7	2956.0	2891.0	1878.0
52.5°	1871.0	1903.0	2021.2	2458.5	2953.6	3452.8	3614.4	3579.3	3117.6	2928.5	1864.7
55°	1301.9	1344.7	1460.1	1837.6	2568.4	3297.7	3712.5	3705.2	3261.9	2904.9	1844.2
57.5°	638.3	680.7	795.8	1133.0	1902.6	2879.2	3562.6	3601.2	3348.1	2879.5	1827.5
60°	266.6	284.0	323.7	497.1	1064.5	2175.9	3224.4	3277.9	3295.3	2845.1	1825.8
62.5°	154.7	157.5	161.7	206.2	414.0	1247.3	2674.8	2750.9	3017.5	2799.6	1798.3
65°	116.8	117.9	116.1	126.5	171.0	473.1	1932.5	2036.1	2518.7	2621.6	1689.9
67.5°	95.9	95.9	91.4	93.5	107.4	177.3	1066.9	1211.5	1863.7	2154.7	1395.4
70°	76.5	78.2	76.1	73.4	76.8	98.0	379.6	470.7	1085.3	1272.4	813.8
72.5°	58.1	58.1	61.5	59.4	57.0	61.5	132.5	148.8	435.6	530.5	293.8
75°	44.8	46.2	48.7	46.6	43.1	36.5	63.6	67.4	131.4	123.4	65.7
77.5°	22.9	23.3	30.9	34.1	32.0	22.2	27.8	30.6	42.8	38.2	24.3
80°	13.9	14.6	17.4	26.8	21.2	11.8	11.5	12.2	20.2	17.4	10.1
82.5°	5.9	6.3	9.7	9.7	8.7	4.5	4.5	4.5	9.7	9.0	4.2
85°	0.0	0.0	1.7	1.4	1.4	1.7	1.7	1.7	2.4	3.5	2.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.0	1.0
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°	1050.6	1050.6	1050.6	1050.6	1050.6	1050.6	1050.6	1050.6	1050.6	1050.6	1050.6
2.5°	1050.6	1028.3	998.4	971.3	934.8	914.3	885.8	862.5	842.7	836.4	833.6
5°	1050.9	1012.7	948.7	884.7	806.2	744.3	680.7	630.3	588.9	575.7	572.2
7.5°	1057.9	1001.6	898.0	781.8	650.4	542.0	445.0	358.1	317.7	304.2	301.4
10°	1067.3	992.2	839.2	658.4	469.7	330.3	234.0	178.3	151.9	137.3	139.4
12.5°	1079.4	984.5	774.2	524.9	310.8	181.5	128.6	107.8	102.2	99.4	98.0
15°	1095.8	975.5	693.5	392.5	190.5	116.8	99.1	93.5	91.4	90.0	89.7
17.5°	1112.5	965.1	611.5	276.0	126.5	97.0	89.0	86.2	84.8	83.8	83.4
20°	1130.2	947.3	515.2	190.2	99.8	87.3	82.0	78.9	77.2	75.4	75.1
22.5°	1137.8	918.8	423.1	133.1	88.6	80.3	73.7	69.9	67.8	66.4	66.4
25°	1130.5	872.6	327.8	101.2	80.7	72.7	66.1	61.9	60.1	58.8	58.8
27.5°	1111.1	813.1	239.2	83.8	72.0	64.7	58.4	54.6	53.2	52.5	52.5
30°	1089.5	738.0	168.6	72.0	62.2	56.3	51.1	48.7	48.3	47.6	47.6
32.5°	1071.1	667.8	116.1	63.3	54.9	49.0	45.5	44.5	44.8	44.2	44.5
35°	1061.0	599.0	86.2	56.3	49.0	43.5	41.7	41.7	41.7	41.4	41.4
37.5°	1065.2	531.2	70.2	51.5	43.8	39.6	37.9	38.6	39.3	39.3	39.3
40°	1086.0	471.1	62.2	46.9	39.3	36.2	34.8	35.8	36.8	37.5	37.5
42.5°	1112.5	422.4	56.3	43.1	36.2	32.7	32.0	33.0	34.1	34.8	34.8
45°	1129.1	373.4	50.4	38.2	33.0	28.9	28.9	30.2	29.9	30.2	30.2
47.5°	1136.8	334.4	44.5	33.0	28.2	25.0	25.4	26.1	25.4	26.1	26.1
50°	1118.0	295.1	39.3	27.5	23.3	21.9	22.6	22.2	22.2	23.6	23.6
52.5°	1083.6	265.9	34.8	23.3	19.8	19.5	20.2	18.8	19.1	19.1	18.8
55°	1058.2	249.3	30.9	20.2	17.0	17.4	17.0	14.6	13.2	11.8	11.5
57.5°	1045.7	242.7	28.2	18.1	15.3	15.3	13.9	10.1	7.6	5.9	5.2
60°	1042.9	234.7	25.4	15.6	13.6	12.9	10.1	5.9	3.8	2.8	2.4
62.5°	1016.5	215.2	22.9	12.5	11.8	10.4	6.3	3.5	2.1	1.4	1.0
65°	929.9	176.9	20.5	9.7	9.0	7.6	3.8	2.1	1.0	0.3	0.0
67.5°	739.8	125.5	18.1	7.3	6.3	4.9	2.4	1.4	0.3	0.0	0.0
70°	426.6	67.8	14.9	5.2	4.2	3.1	1.7	0.7	0.0	0.0	0.0
72.5°	142.5	31.6	11.5	3.5	3.1	2.4	1.0	0.3	0.0	0.0	0.0
75°	31.3	18.8	7.6	2.4	2.1	1.7	0.7	0.0	0.0	0.0	0.0
77.5°	11.8	13.2	3.8	1.7	1.4	1.0	0.3	0.0	0.0	0.0	0.0
80°	4.5	8.7	1.7	1.0	1.0	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	2.4	3.5	1.0	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.4	1.7	0.7	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	0.3	0.3	0.3	0.0	0.0	0.0	0.0	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)