

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: P630599

Luminaire Tested: GWS-SA1E-722-U-AFL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630599  
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-SA1E-722-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) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

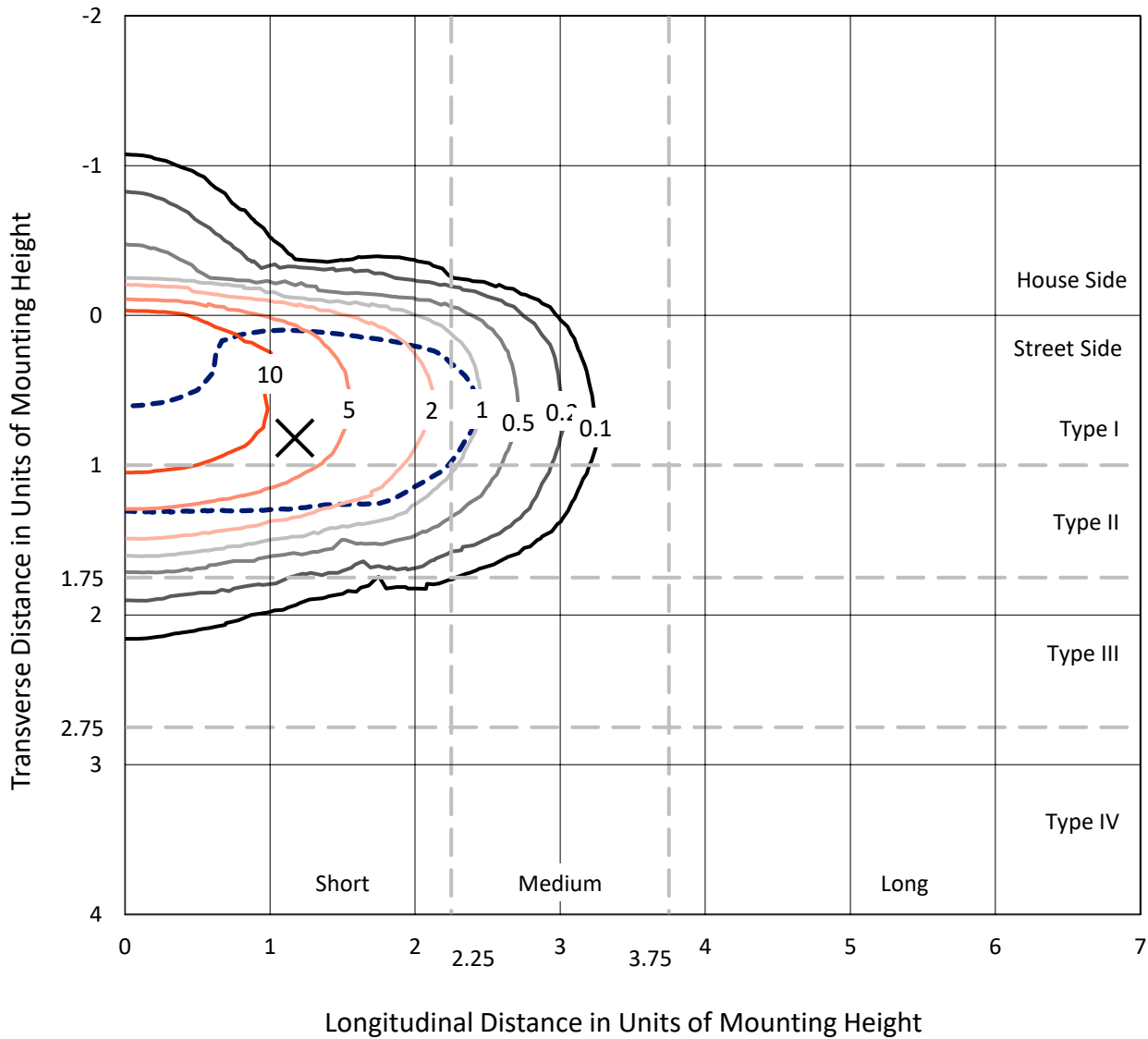
Lumens per Lamp: N/A  
Luminaire Lumens: 4680.7 lumens  
Efficiency: N/A  
Efficacy: 80.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 58.4  
Input Voltage (V): 120  
Input Current (Ain): 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

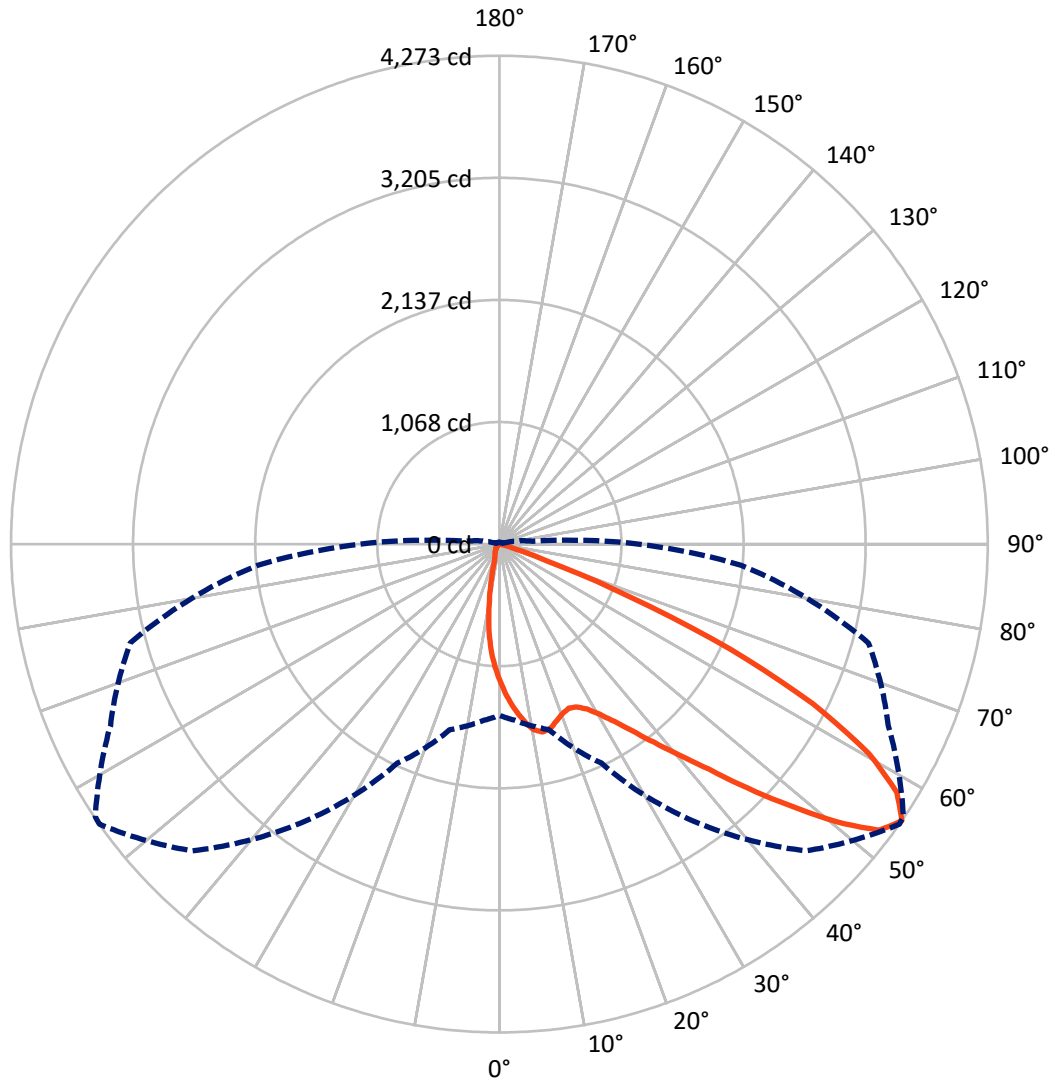
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.8 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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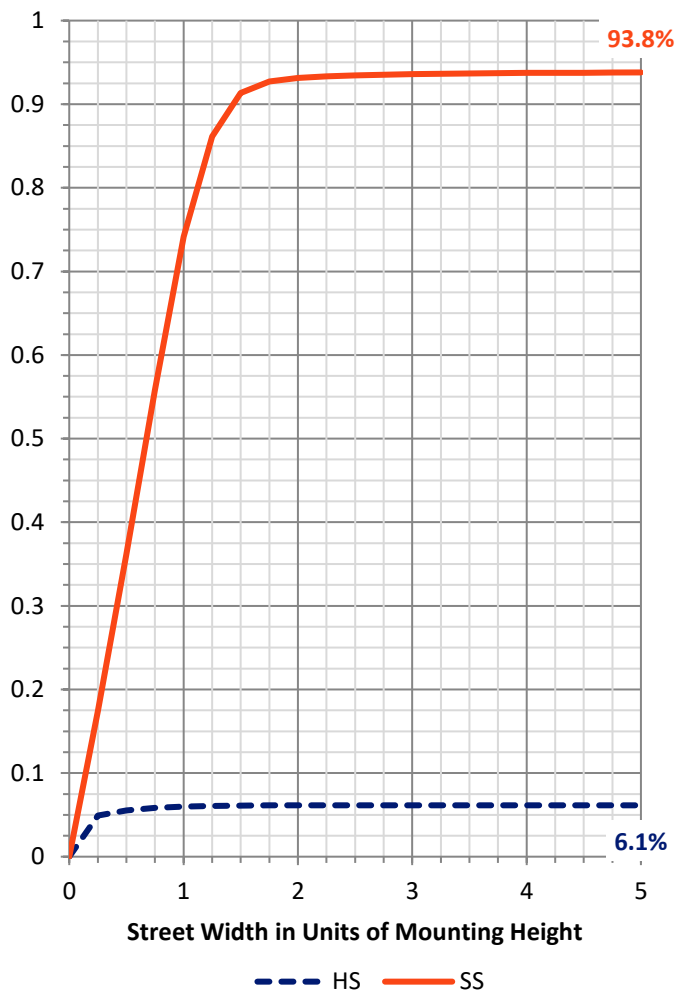
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	288.8	0.0	288.8
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	4391.9	0.0	4391.9
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	4680.7	0.0	4680.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.9	2.3
10°-20°	257.6	5.5
20°-30°	429.1	9.2
30°-40°	731.2	15.6
40°-50°	1193.5	25.5
50°-60°	1249.5	26.7
60°-70°	630.2	13.5
70°-80°	79.6	1.7
80°-90°	3.0	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°	4680.7	100.0
0°-180°	4680.7	100.0

**Coefficient of Utilization**



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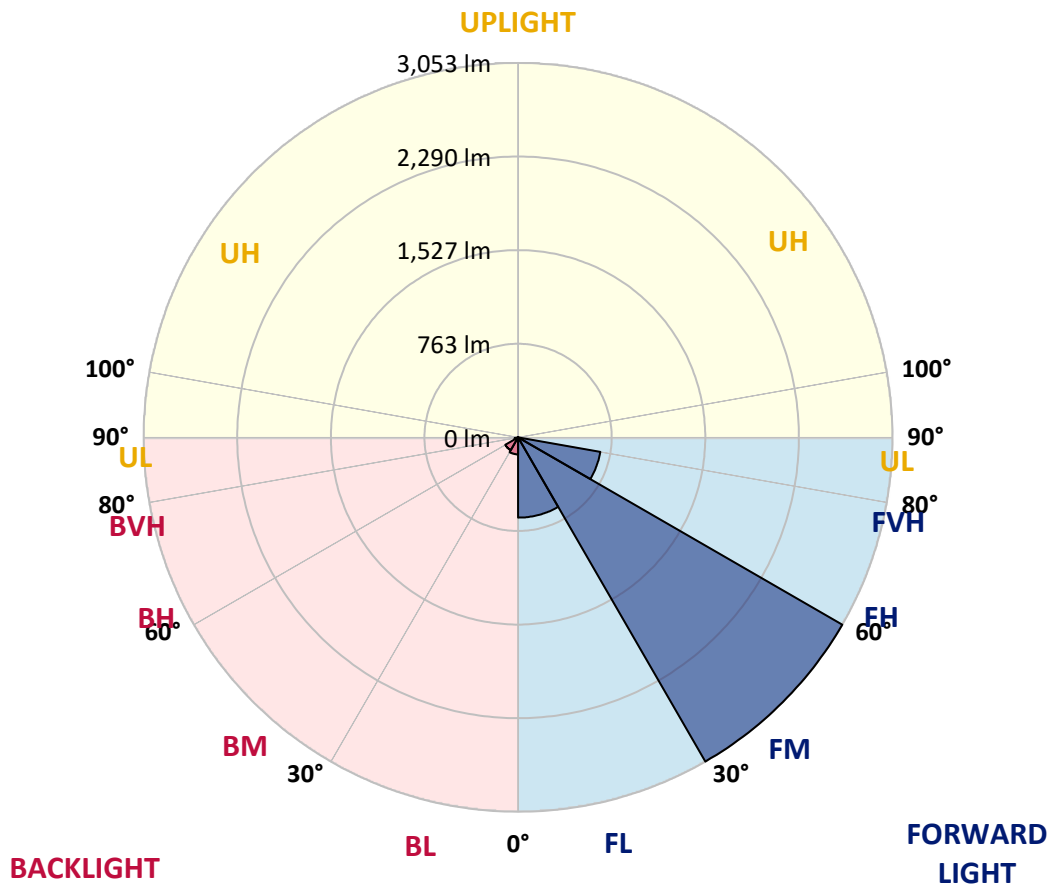
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	654.8	14.0			
FM (30°-60°)	3053.5	65.2			
FH (60°-80°)	680.9	14.5			G1/1800
FVH (80°-90°)	2.7	0.1			G0/10
BL (0°-30°)	138.8	3.0	B1/500		
BM (30°-60°)	120.7	2.6	B0/220		
BH (60°-80°)	29.0	0.6	B0/110		G0/110
BVH (80°-90°)	0.3	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2
2.5°	1409.7	1402.9	1413.3	1401.3	1380.9	1363.7	1341.3	1333.3	1297.2	1263.2	1230.4
5°	1580.9	1582.9	1579.7	1562.9	1534.1	1502.1	1456.9	1446.9	1384.1	1319.3	1249.2
7.5°	1623.4	1622.2	1629.0	1635.4	1630.6	1614.6	1565.3	1555.3	1477.3	1380.1	1278.0
10°	1492.5	1493.3	1507.3	1550.5	1604.2	1659.8	1652.2	1646.6	1570.1	1448.9	1310.1
12.5°	1307.7	1314.9	1329.7	1391.3	1482.1	1608.6	1687.0	1692.6	1655.4	1524.5	1347.7
15°	1227.6	1229.2	1241.2	1278.4	1346.1	1502.1	1672.2	1687.8	1726.6	1600.6	1388.5
17.5°	1225.6	1227.6	1232.8	1249.2	1293.2	1418.5	1624.6	1651.8	1780.2	1682.2	1437.3
20°	1300.9	1299.7	1296.0	1287.2	1306.5	1390.9	1580.5	1610.6	1809.4	1761.8	1486.5
22.5°	1437.3	1435.7	1419.7	1383.3	1367.7	1416.1	1558.9	1586.1	1827.0	1832.6	1526.9
25°	1594.6	1605.8	1575.7	1520.5	1482.1	1480.5	1578.1	1597.4	1842.2	1895.5	1554.5
27.5°	1767.0	1770.6	1745.0	1683.0	1627.4	1583.7	1633.8	1648.2	1859.0	1951.5	1570.1
30°	1956.3	1955.1	1925.9	1853.8	1786.2	1723.4	1727.4	1733.0	1898.3	2015.5	1587.3
32.5°	2192.8	2198.0	2145.9	2047.9	1966.7	1879.9	1849.8	1850.6	1969.1	2097.9	1613.4
35°	2514.1	2501.3	2432.4	2292.8	2154.3	2060.7	2009.5	2005.1	2078.3	2208.8	1658.6
37.5°	2820.2	2821.4	2749.4	2595.7	2420.8	2273.2	2200.8	2188.8	2232.0	2362.4	1733.8
40°	3032.7	3036.7	3006.6	2926.2	2740.9	2532.1	2425.6	2413.2	2431.2	2556.9	1832.2
42.5°	3145.1	3156.3	3164.7	3183.5	3043.1	2855.4	2691.7	2690.5	2671.7	2778.6	1946.3
45°	3149.5	3166.3	3217.5	3346.0	3362.0	3224.3	3046.3	3019.4	2947.0	3015.8	2048.3
47.5°	2975.4	3014.2	3123.1	3377.6	3545.6	3591.2	3414.8	3398.4	3195.1	3203.5	2124.7
50°	2569.7	2610.1	2810.6	3215.5	3592.0	3882.5	3819.3	3785.3	3402.4	3327.6	2161.5
52.5°	2153.5	2190.4	2326.4	2829.8	3399.6	3974.2	4160.2	4119.8	3588.4	3370.8	2146.3
55°	1498.5	1547.7	1680.6	2115.1	2956.2	3795.7	4273.1	4264.7	3754.5	3343.6	2122.7
57.5°	734.7	783.5	915.9	1304.1	2190.0	3313.9	4100.6	4145.0	3853.7	3314.3	2103.5
60°	306.9	326.9	372.5	572.2	1225.2	2504.5	3711.3	3772.9	3792.9	3274.7	2101.5
62.5°	178.1	181.3	186.1	237.3	476.6	1435.7	3078.7	3166.3	3473.2	3222.3	2069.9
65°	134.4	135.6	133.6	145.7	196.9	544.6	2224.4	2343.6	2899.0	3017.4	1945.1
67.5°	110.4	110.4	105.2	107.6	123.6	204.1	1228.0	1394.5	2145.1	2480.1	1606.2
70°	88.0	90.0	87.6	84.4	88.4	112.8	437.0	541.8	1249.2	1464.5	936.7
72.5°	66.8	66.8	70.8	68.4	65.6	70.8	152.5	171.3	501.4	610.6	338.1
75°	51.6	53.2	56.0	53.6	49.6	42.0	73.2	77.6	151.3	142.0	75.6
77.5°	26.4	26.8	35.6	39.2	36.8	25.6	32.0	35.2	49.2	44.0	28.0
80°	16.0	16.8	20.0	30.8	24.4	13.6	13.2	14.0	23.2	20.0	11.6
82.5°	6.8	7.2	11.2	11.2	10.0	5.2	5.2	5.2	11.2	10.4	4.8
85°	0.0	0.0	2.0	1.6	1.6	2.0	2.0	2.0	2.8	4.0	2.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.2	1.2
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°	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2
2.5°	1209.2	1183.6	1149.2	1118.0	1076.0	1052.4	1019.6	992.7	969.9	962.7	959.5
5°	1209.6	1165.6	1092.0	1018.4	927.9	856.7	783.5	725.5	677.8	662.6	658.6
7.5°	1217.6	1152.8	1033.6	899.9	748.7	623.8	512.2	412.1	365.7	350.1	346.9
10°	1228.4	1142.0	965.9	757.9	540.6	380.1	269.3	205.3	174.9	158.1	160.5
12.5°	1242.4	1133.2	891.1	604.2	357.7	208.9	148.1	124.0	117.6	114.4	112.8
15°	1261.2	1122.8	798.3	451.8	219.3	134.4	114.0	107.6	105.2	103.6	103.2
17.5°	1280.4	1110.8	703.8	317.7	145.7	111.6	102.4	99.2	97.6	96.4	96.0
20°	1300.9	1090.4	593.0	218.9	114.8	100.4	94.4	90.8	88.8	86.8	86.4
22.5°	1309.7	1057.6	487.0	153.3	102.0	92.4	84.8	80.4	78.0	76.4	76.4
25°	1301.3	1004.3	377.3	116.4	92.8	83.6	76.0	71.2	69.2	67.6	67.6
27.5°	1278.8	935.9	275.3	96.4	82.8	74.4	67.2	62.8	61.2	60.4	60.4
30°	1254.0	849.5	194.1	82.8	71.6	64.8	58.8	56.0	55.6	54.8	54.8
32.5°	1232.8	768.7	133.6	72.8	63.2	56.4	52.4	51.2	51.6	50.8	51.2
35°	1221.2	689.4	99.2	64.8	56.4	50.0	48.0	48.0	48.0	47.6	47.6
37.5°	1226.0	611.4	80.8	59.2	50.4	45.6	43.6	44.4	45.2	45.2	45.2
40°	1250.0	542.2	71.6	54.0	45.2	41.6	40.0	41.2	42.4	43.2	43.2
42.5°	1280.4	486.2	64.8	49.6	41.6	37.6	36.8	38.0	39.2	40.0	40.0
45°	1299.7	429.7	58.0	44.0	38.0	33.2	33.2	34.8	34.4	34.8	34.8
47.5°	1308.5	384.9	51.2	38.0	32.4	28.8	29.2	30.0	29.2	30.0	30.0
50°	1286.8	339.7	45.2	31.6	26.8	25.2	26.0	25.6	25.6	27.2	27.2
52.5°	1247.2	306.1	40.0	26.8	22.8	22.4	23.2	21.6	22.0	22.0	21.6
55°	1218.0	286.9	35.6	23.2	19.6	20.0	19.6	16.8	15.2	13.6	13.2
57.5°	1203.6	279.3	32.4	20.8	17.6	17.6	16.0	11.6	8.8	6.8	6.0
60°	1200.4	270.1	29.2	18.0	15.6	14.8	11.6	6.8	4.4	3.2	2.8
62.5°	1170.0	247.7	26.4	14.4	13.6	12.0	7.2	4.0	2.4	1.6	1.2
65°	1070.4	203.7	23.6	11.2	10.4	8.8	4.4	2.4	1.2	0.4	0.0
67.5°	851.5	144.5	20.8	8.4	7.2	5.6	2.8	1.6	0.4	0.0	0.0
70°	491.0	78.0	17.2	6.0	4.8	3.6	2.0	0.8	0.0	0.0	0.0
72.5°	164.1	36.4	13.2	4.0	3.6	2.8	1.2	0.4	0.0	0.0	0.0
75°	36.0	21.6	8.8	2.8	2.4	2.0	0.8	0.0	0.0	0.0	0.0
77.5°	13.6	15.2	4.4	2.0	1.6	1.2	0.4	0.0	0.0	0.0	0.0
80°	5.2	10.0	2.0	1.2	1.2	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	2.8	4.0	1.2	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.6	2.0	0.8	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.4	0.4	0.4	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)