

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: P630582

Luminaire Tested: GWS-SA1D-830-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630582
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1D-830-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3770.9 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

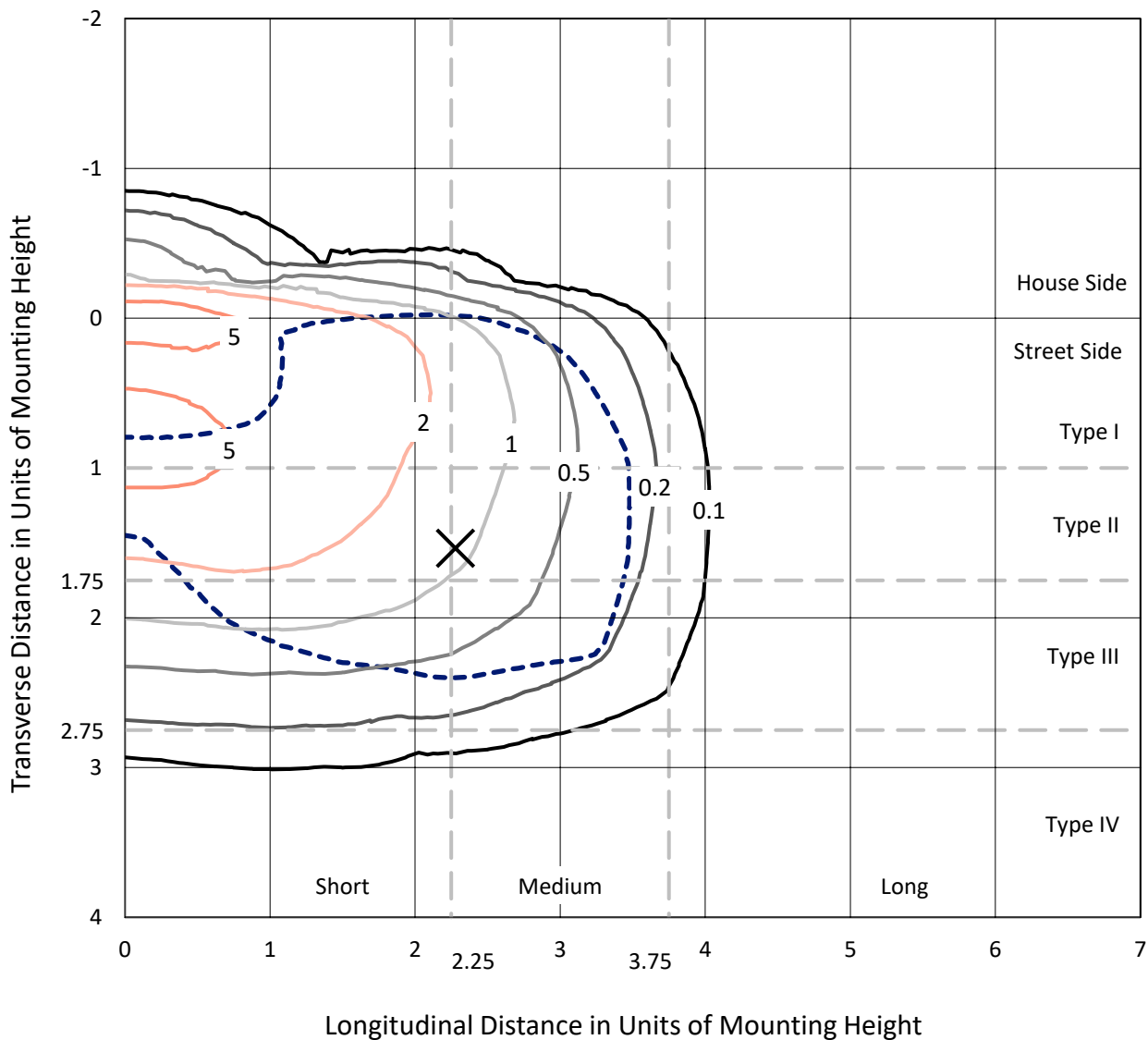
Input Watts (W): 44.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

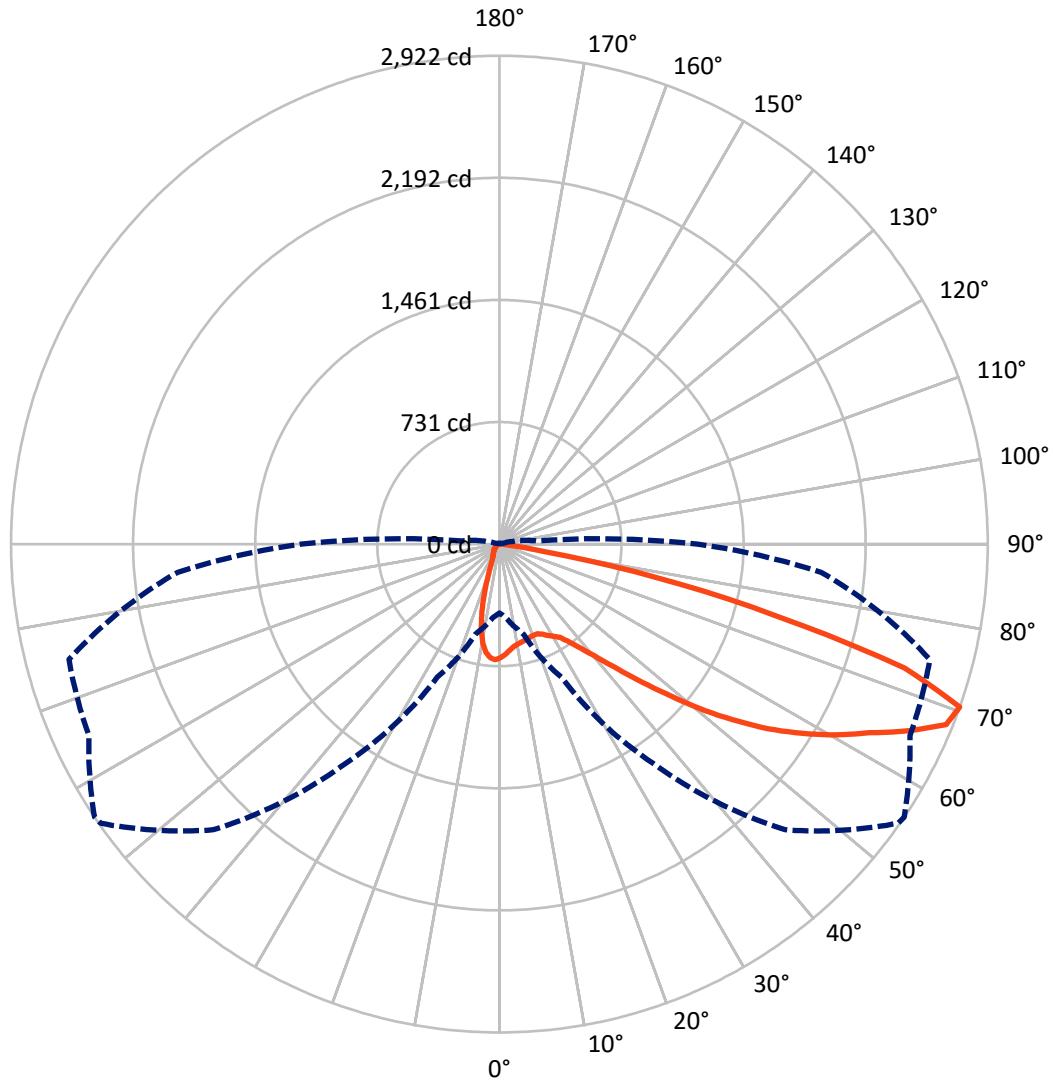
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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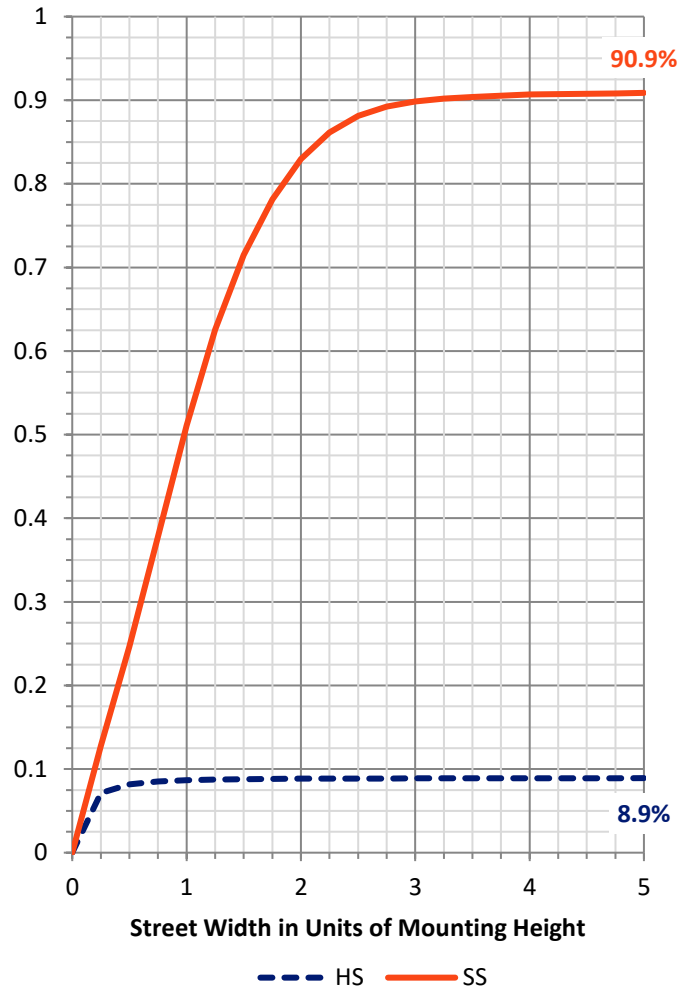
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	338.7	0.0	338.7
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	3432.2	0.0	3432.2
	% Fixture	91.0	0.0	91.0
Total	Lumens	3770.9	0.0	3770.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.4	1.5
10°-20°	131.3	3.5
20°-30°	208.0	5.5
30°-40°	358.7	9.5
40°-50°	605.6	16.1
50°-60°	889.9	23.6
60°-70°	1055.0	28.0
70°-80°	449.9	11.9
80°-90°	14.1	0.4
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°	3770.9	100.0
0°-180°	3770.9	100.0

Coefficient of Utilization



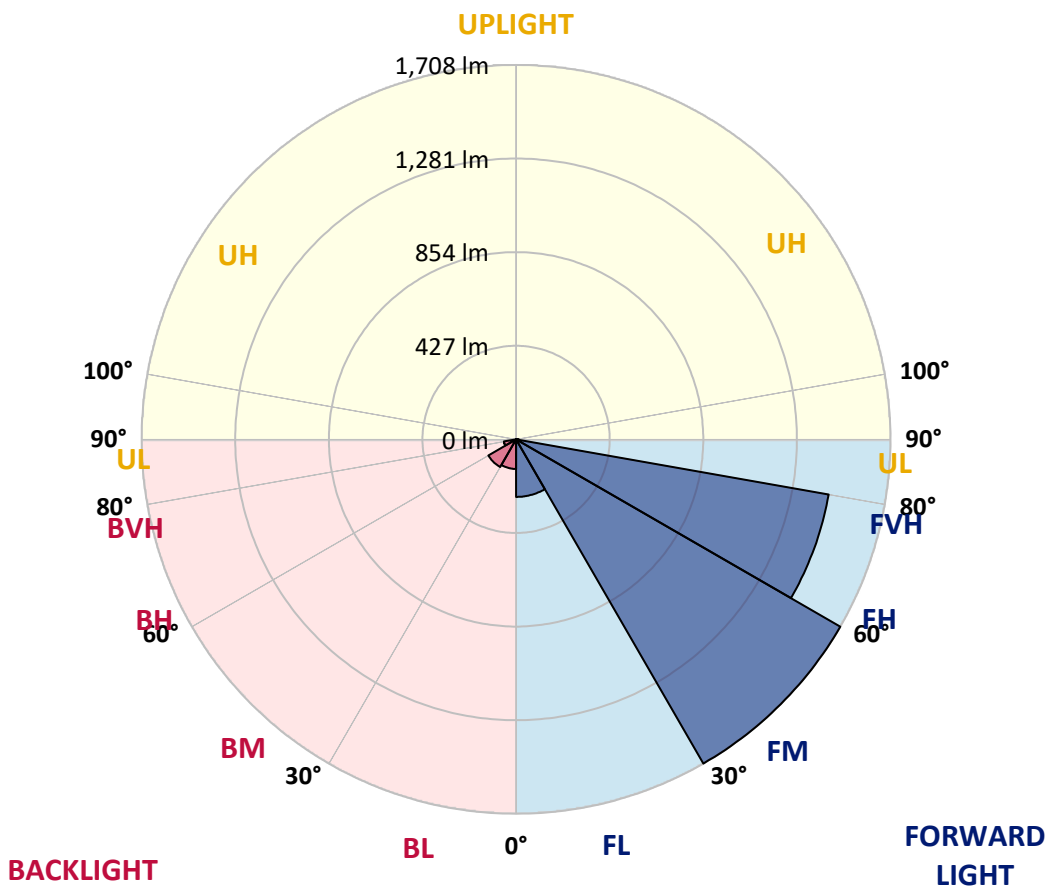
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	262.8	7.0			
FM (30°-60°)	1708.3	45.3			
FH (60°-80°)	1448.4	38.4			G1/1800
FVH (80°-90°)	12.7	0.3			G1/100
BL (0°-30°)	134.9	3.6	B1/500		
BM (30°-60°)	145.9	3.9	B0/220		
BH (60°-80°)	56.5	1.5	B0/110		G0/110
BVH (80°-90°)	1.4	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-G1
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	679.9	679.9	679.9	679.9	679.9	679.9	679.9	679.9	679.9	679.9	679.9
2.5°	633.0	631.9	632.6	637.8	647.5	652.0	659.6	660.9	667.2	675.1	678.2
5°	591.9	588.4	590.1	597.4	608.5	620.9	635.0	638.8	654.4	672.0	685.1
7.5°	554.2	550.4	554.6	566.0	581.5	595.0	616.0	618.5	643.3	674.4	698.2
10°	495.2	496.2	504.5	524.5	548.4	576.3	604.7	608.1	638.8	682.3	719.3
12.5°	449.9	447.5	456.5	479.3	512.8	553.5	596.0	600.5	639.2	694.4	746.2
15°	428.9	428.2	432.0	448.6	481.0	529.0	588.1	593.9	643.7	705.5	771.8
17.5°	429.6	428.5	428.2	437.9	462.0	510.7	579.4	587.0	647.5	717.6	798.7
20°	459.6	454.8	446.2	441.7	456.2	499.0	573.6	582.2	653.0	730.3	827.4
22.5°	522.5	524.2	501.1	476.9	470.0	500.4	572.9	582.9	665.1	750.4	862.6
25°	648.2	645.4	602.6	548.4	510.7	516.3	585.0	597.1	688.9	779.0	895.8
27.5°	805.6	808.0	749.3	663.0	584.3	549.1	607.1	619.2	716.5	797.0	917.9
30°	977.3	974.8	912.0	816.3	688.6	603.6	629.2	639.9	730.3	806.7	940.6
32.5°	1139.5	1134.0	1071.9	971.7	821.5	689.6	659.6	665.8	748.6	827.7	971.4
35°	1278.0	1277.7	1223.5	1116.8	958.3	797.3	711.7	716.9	782.8	861.2	1016.6
37.5°	1421.0	1416.1	1355.4	1258.0	1098.8	915.4	791.5	789.4	836.7	910.6	1072.2
40°	1538.4	1535.3	1488.7	1395.1	1244.9	1046.0	888.2	881.9	900.6	979.0	1149.6
42.5°	1625.4	1625.8	1611.3	1554.3	1399.6	1196.9	1009.7	1000.0	999.7	1082.2	1251.8
45°	1691.4	1695.9	1717.6	1709.0	1582.2	1372.6	1165.4	1155.4	1138.5	1216.2	1368.8
47.5°	1722.1	1728.0	1793.6	1828.1	1742.1	1547.0	1350.9	1329.8	1296.7	1394.4	1499.7
50°	1719.0	1729.4	1820.9	1925.8	1887.2	1723.8	1552.9	1542.9	1488.7	1582.9	1629.2
52.5°	1648.5	1670.6	1822.6	1985.2	1998.7	1886.8	1761.8	1743.2	1716.9	1779.8	1750.8
55°	1457.2	1484.2	1749.7	2004.2	2085.7	2029.1	1966.2	1951.0	1907.5	1965.6	1856.8
57.5°	1353.3	1376.4	1596.4	1994.9	2159.6	2160.7	2148.2	2135.8	2099.9	2149.3	1981.1
60°	1290.8	1313.9	1514.6	1960.7	2226.6	2299.5	2319.2	2317.8	2266.0	2358.2	2126.8
62.5°	1199.3	1231.1	1429.3	1872.0	2274.3	2436.2	2495.6	2486.3	2428.6	2575.7	2271.2
65°	1014.5	1042.2	1254.5	1725.6	2246.3	2549.5	2686.9	2691.8	2625.1	2780.5	2385.1
67.5°	711.4	731.7	942.7	1418.2	2056.4	2586.8	2882.7	2882.4	2768.8	2885.5	2334.7
70°	412.3	440.3	557.0	876.8	1599.9	2417.2	2912.1	2922.1	2710.4	2666.2	1932.1
72.5°	159.5	182.7	315.6	465.8	834.3	1851.6	2504.9	2534.3	2268.4	2056.7	1344.7
75°	47.7	53.2	148.5	247.9	335.0	894.4	1695.9	1704.1	1556.0	1282.9	689.3
77.5°	35.6	39.4	64.9	125.4	117.4	271.1	877.5	958.3	826.0	458.2	189.9
80°	24.2	28.7	46.3	61.1	43.5	72.2	246.6	270.7	252.1	102.9	47.7
82.5°	10.7	13.8	32.8	30.7	15.9	20.7	76.0	80.8	52.1	31.1	16.6
85°	1.0	1.4	12.4	13.5	5.9	4.8	15.9	15.9	11.4	10.7	6.9
87.5°	0.0	0.0	0.3	0.7	0.7	1.0	1.4	1.7	2.1	2.8	3.5
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°	679.9	679.9	679.9	679.9	679.9	679.9	679.9	679.9	679.9	679.9	679.9
2.5°	686.1	682.0	687.2	691.3	692.4	684.8	680.3	673.7	672.3	672.7	671.0
5°	695.5	693.4	697.2	692.7	681.0	658.9	639.9	618.8	607.4	600.9	600.2
7.5°	712.7	711.7	707.6	687.2	650.6	601.5	554.2	508.0	479.3	468.9	467.2
10°	738.3	736.2	719.3	671.0	592.9	498.6	419.2	352.9	312.5	300.8	286.3
12.5°	767.6	763.5	726.5	636.1	505.9	375.4	276.3	202.0	167.1	156.8	156.8
15°	796.0	787.0	722.4	578.4	398.8	244.1	154.4	116.7	106.0	103.3	103.3
17.5°	825.0	807.7	706.2	499.7	275.6	144.3	102.9	95.7	94.3	94.6	95.0
20°	852.2	825.3	677.5	405.1	175.8	100.8	92.2	90.5	89.8	90.5	90.1
22.5°	881.9	841.5	634.0	301.8	114.3	90.8	87.7	86.3	85.6	86.7	86.7
25°	911.3	853.3	576.3	203.0	90.8	84.6	82.9	81.5	80.8	81.1	81.1
27.5°	926.5	848.8	500.7	129.5	81.5	78.4	76.7	74.9	73.9	73.6	73.9
30°	936.8	835.0	408.2	92.2	73.9	70.1	68.4	67.0	64.2	62.5	63.2
32.5°	953.1	821.2	307.7	77.4	67.7	61.8	59.0	55.6	51.8	50.1	50.1
35°	972.4	802.2	215.8	69.8	61.1	54.9	49.7	43.9	39.4	38.0	38.0
37.5°	998.0	784.2	143.7	64.6	55.6	49.0	41.8	34.9	30.0	29.4	29.0
40°	1036.3	769.0	101.2	60.8	50.8	42.8	34.2	26.9	23.5	22.4	22.4
42.5°	1086.0	753.5	80.1	57.0	46.6	36.9	27.3	21.4	18.6	18.0	17.6
45°	1147.5	735.2	69.8	53.5	42.5	30.7	21.8	18.0	15.9	15.2	15.2
47.5°	1214.1	710.3	64.9	49.0	37.6	24.9	18.3	15.5	14.5	14.2	13.8
50°	1279.7	676.8	60.8	44.9	32.1	20.4	15.9	14.2	13.5	13.1	13.1
52.5°	1337.1	637.8	55.6	40.1	26.2	17.6	14.2	13.1	12.4	11.7	11.4
55°	1386.1	595.3	49.0	34.5	21.4	15.5	13.1	12.1	11.4	10.7	10.4
57.5°	1449.3	571.2	39.4	28.0	17.6	13.8	12.1	11.1	10.4	9.3	9.3
60°	1519.4	553.5	29.4	22.1	15.2	12.8	11.1	10.0	9.3	8.3	8.3
62.5°	1575.7	527.3	23.1	18.0	13.1	11.4	10.0	9.0	8.3	7.3	7.3
65°	1597.1	473.1	19.0	14.2	10.7	10.0	9.0	8.3	7.3	6.2	6.2
67.5°	1500.4	364.7	15.9	11.4	9.0	8.6	7.9	7.6	6.2	5.5	5.2
70°	1188.2	222.4	13.1	9.3	7.6	7.3	7.3	6.6	5.5	5.2	4.8
72.5°	814.3	114.6	10.7	7.6	6.6	6.6	6.2	5.9	5.2	4.8	4.8
75°	423.0	38.3	8.3	5.9	5.2	5.5	5.5	5.2	4.8	4.8	4.5
77.5°	121.2	17.3	6.2	4.5	4.1	4.1	4.5	4.5	4.5	4.1	4.1
80°	31.4	10.0	4.5	3.5	3.5	3.5	3.5	3.8	4.1	3.8	3.8
82.5°	12.8	5.5	3.1	2.8	2.8	2.8	2.8	3.1	3.5	3.5	3.5
85°	7.9	2.8	2.4	2.4	2.4	2.1	2.1	2.4	2.4	2.8	2.8
87.5°	4.8	2.1	2.1	2.1	2.1	1.7	1.7	1.7	1.7	1.7	1.7
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)