

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: P632825

Luminaire Tested: GWS-SA2D-740-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632825
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-740-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8746.1 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

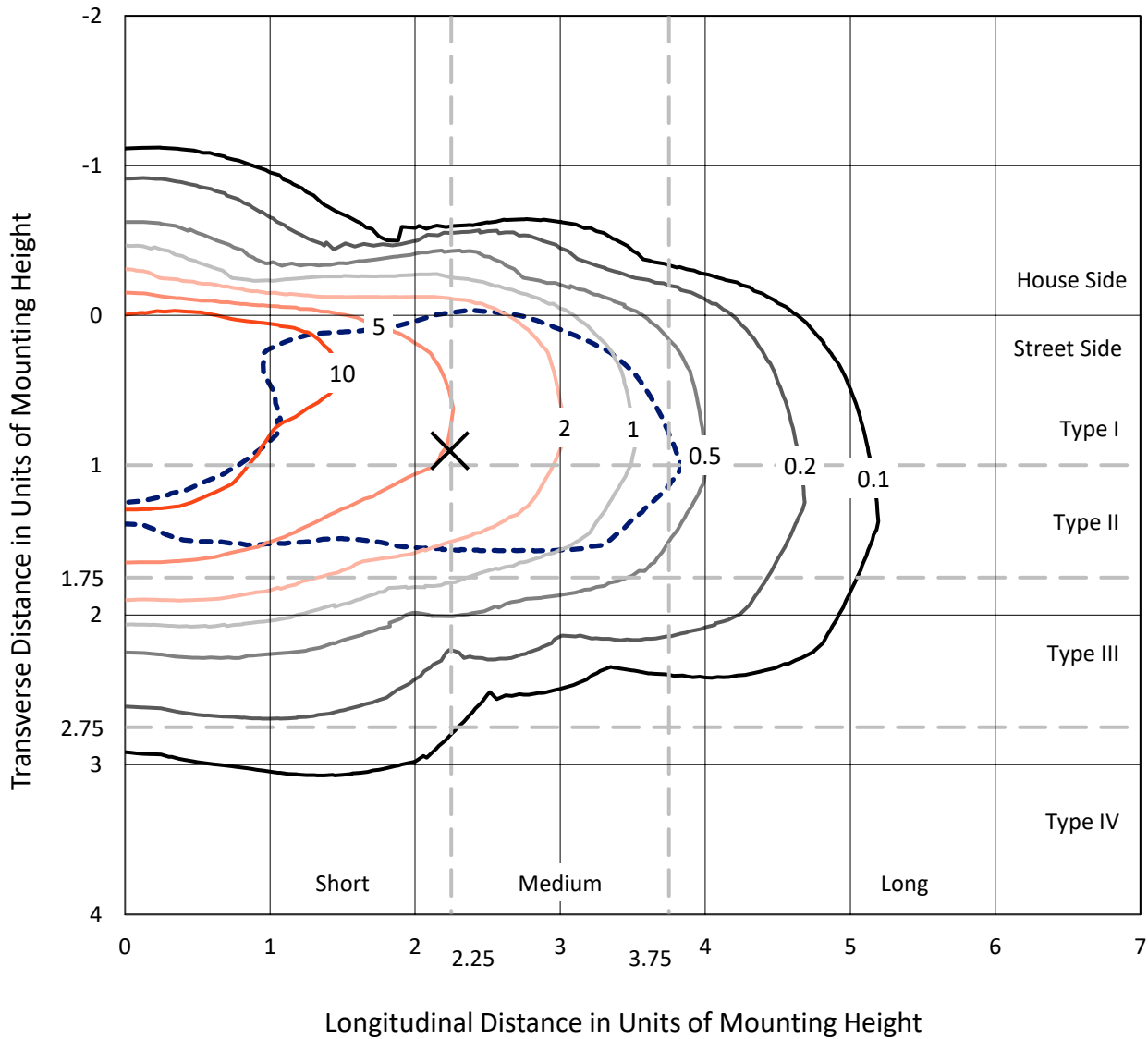
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

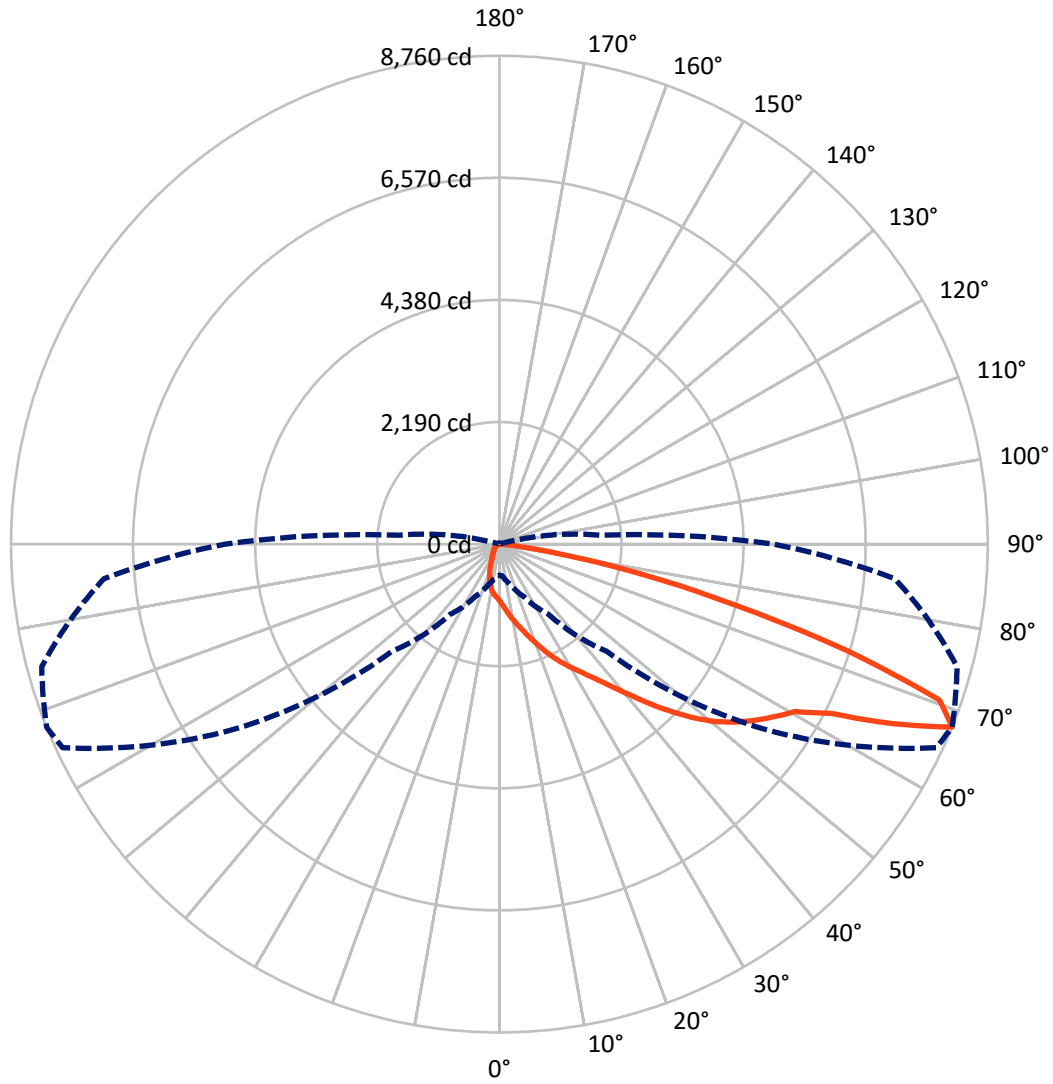
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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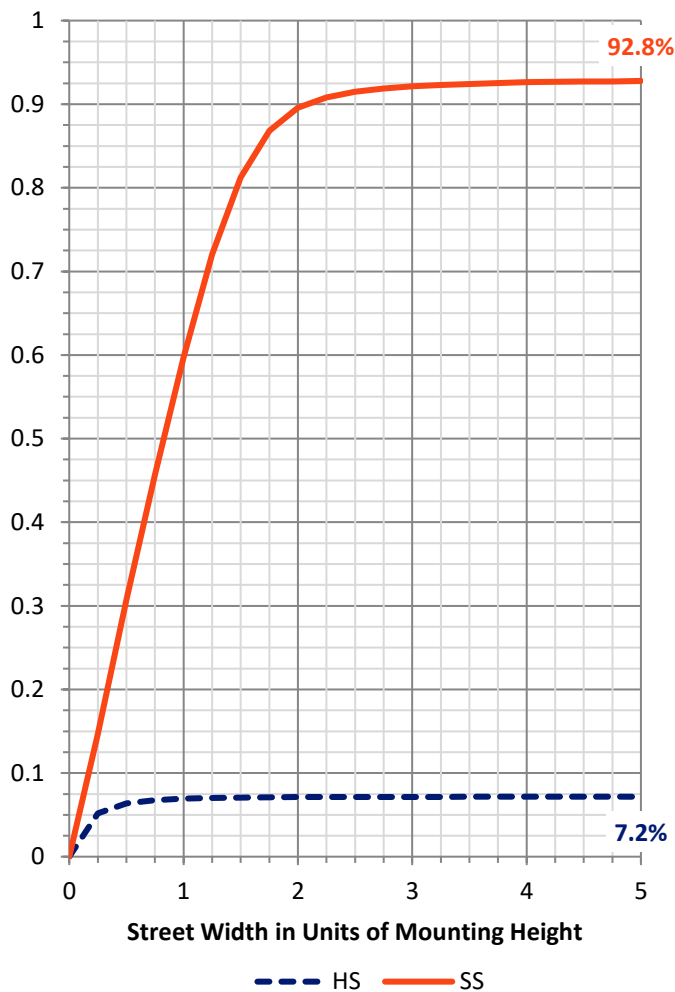
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	631.6	0.0	631.6
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	8114.5	0.0	8114.5
	% Fixture	92.8	0.0	92.8
Total	Lumens	8746.1	0.0	8746.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.3	1.1
10°-20°	285.1	3.3
20°-30°	489.9	5.6
30°-40°	851.7	9.7
40°-50°	1486.2	17.0
50°-60°	2241.6	25.6
60°-70°	2247.7	25.7
70°-80°	991.7	11.3
80°-90°	53.0	0.6
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°	8746.1	100.0
0°-180°	8746.1	100.0

Coefficient of Utilization



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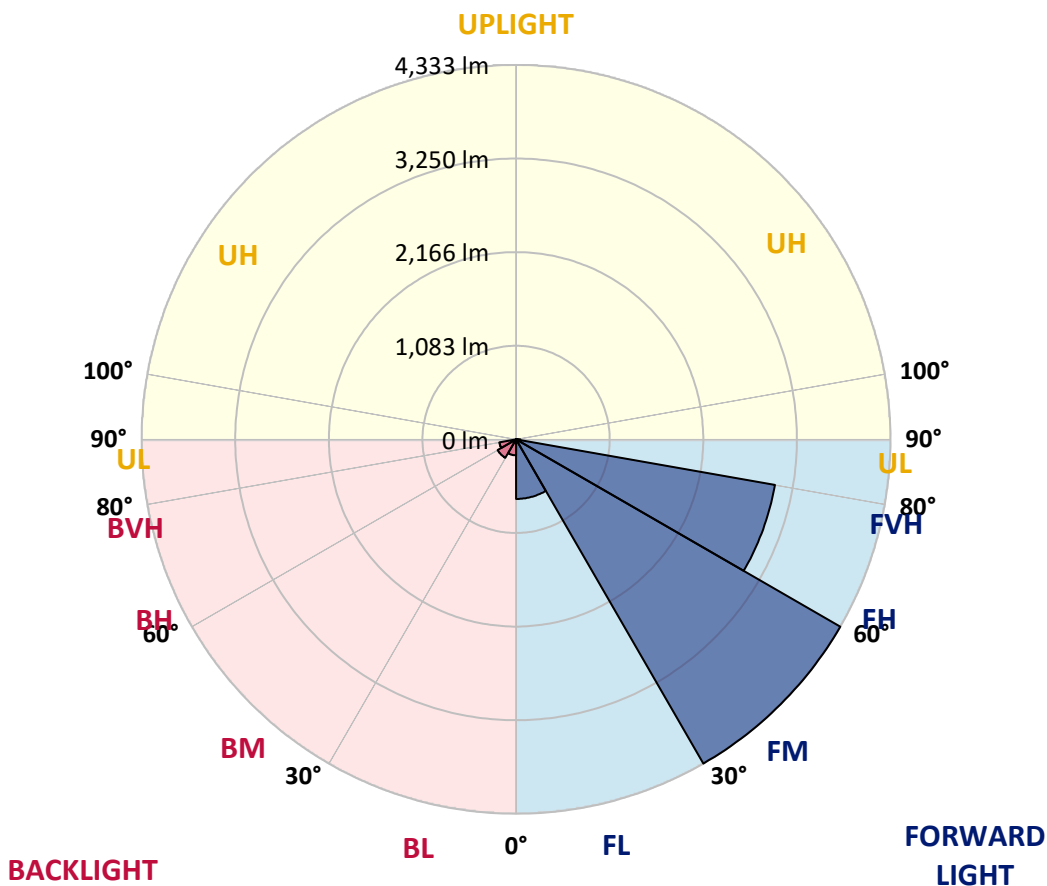
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	689.5	7.9			
FM (30°-60°)	4332.8	49.5			
FH (60°-80°)	3042.3	34.8			G2/5000
FVH (80°-90°)	50.0	0.6			G1/100
BL (0°-30°)	184.8	2.1	B1/500		
BM (30°-60°)	246.7	2.8	B1/1000		
BH (60°-80°)	197.1	2.3	B1/500		G1/500
BVH (80°-90°)	3.0	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1017.8	1017.8	1017.8	1017.8	1017.8	1017.8	1017.8	1017.8	1017.8	1017.8	1017.8
2.5°	1185.2	1192.8	1185.2	1186.9	1165.1	1155.1	1133.3	1103.2	1095.7	1076.4	1047.1
5°	1330.0	1336.7	1329.2	1327.5	1302.4	1284.0	1248.0	1196.1	1181.0	1143.4	1085.6
7.5°	1408.7	1412.9	1415.4	1419.6	1410.4	1395.3	1362.7	1298.2	1282.3	1221.2	1140.0
10°	1417.1	1420.4	1433.0	1458.1	1476.5	1485.7	1467.3	1407.9	1382.8	1323.3	1207.0
12.5°	1393.6	1398.7	1418.8	1460.6	1511.7	1558.5	1570.3	1518.4	1495.8	1419.6	1285.7
15°	1362.7	1366.9	1394.5	1451.4	1528.4	1614.6	1663.2	1640.6	1615.5	1535.9	1372.7
17.5°	1315.0	1320.8	1359.3	1436.3	1535.9	1659.0	1763.6	1771.1	1753.6	1667.4	1469.0
20°	1288.2	1292.4	1326.7	1406.2	1530.9	1691.6	1857.4	1928.5	1909.3	1818.9	1579.5
22.5°	1310.8	1314.1	1336.7	1398.7	1514.2	1710.0	1944.4	2085.9	2075.0	1981.2	1695.8
25°	1429.6	1440.5	1427.1	1438.0	1521.7	1720.1	2014.7	2243.2	2245.7	2151.2	1816.3
27.5°	1670.7	1656.5	1624.7	1570.3	1580.3	1746.9	2075.0	2391.4	2413.1	2316.9	1923.5
30°	1916.0	1907.6	1888.3	1803.8	1733.5	1806.3	2126.0	2542.9	2577.2	2480.1	2018.9
32.5°	2191.3	2199.7	2165.4	2064.1	1944.4	1926.8	2178.8	2686.9	2751.3	2665.1	2131.1
35°	2520.3	2522.8	2455.0	2342.8	2207.2	2126.0	2273.4	2845.9	2964.7	2901.1	2280.9
37.5°	2840.9	2855.9	2819.1	2642.5	2522.0	2373.8	2429.9	3050.1	3217.5	3192.4	2469.2
40°	3124.6	3148.1	3136.3	2965.6	2807.4	2682.7	2672.6	3289.5	3523.0	3551.5	2717.8
42.5°	3350.6	3365.7	3374.9	3253.5	3113.7	3043.4	2972.3	3567.4	3883.8	4000.1	3022.5
45°	3589.2	3594.2	3613.4	3531.4	3409.2	3415.1	3326.3	3904.7	4263.8	4497.3	3372.4
47.5°	3893.0	3909.7	3900.5	3814.3	3703.8	3770.0	3692.1	4252.1	4638.8	5028.0	3730.6
50°	4263.0	4280.6	4272.2	4171.7	4048.7	4076.3	4027.8	4589.4	5000.4	5528.6	4028.6
52.5°	4453.8	4468.0	4571.8	4617.0	4552.6	4376.8	4314.0	4960.2	5305.9	5940.4	4302.3
55°	4361.7	4371.8	4597.8	4788.6	5024.7	4848.9	4602.0	5246.5	5575.4	6261.8	4505.7
57.5°	3980.1	4034.5	4341.7	4664.7	5161.1	5315.1	5069.0	5557.9	5834.9	6485.3	4705.8
60°	3197.4	3194.9	3635.2	4215.3	4894.9	5443.2	5728.6	5978.9	6095.2	6656.9	4973.6
62.5°	1767.0	1782.9	2368.8	3133.0	4155.0	5111.7	6223.3	6706.3	6688.7	6956.5	5393.0
65°	879.7	911.5	1229.6	1794.6	2764.7	4224.5	6308.7	7816.1	7765.9	7662.1	6259.3
67.5°	558.3	570.9	746.6	1042.9	1536.8	2715.3	5777.2	8644.0	8760.3	8499.2	7118.9
70°	361.6	382.5	519.0	713.1	927.4	1399.5	4232.0	8107.4	8374.4	8407.1	6583.2
72.5°	196.7	211.8	331.5	508.9	669.6	699.8	2377.2	6084.3	6513.7	7131.5	5150.2
75°	112.2	123.0	181.6	345.7	491.3	426.0	1053.8	4073.0	4346.7	5096.7	3690.4
77.5°	67.8	77.0	102.1	168.2	308.0	284.6	398.4	2479.3	2653.4	3040.9	1936.9
80°	31.0	36.8	64.5	92.9	168.2	134.8	152.3	1155.9	1193.6	1248.0	641.2
82.5°	14.2	16.7	29.3	55.2	95.4	77.8	58.6	267.0	375.8	355.7	163.2
85°	1.7	1.7	10.9	22.6	26.8	20.1	24.3	60.3	76.2	107.1	46.9
87.5°	0.0	0.0	0.8	0.8	1.7	2.5	5.0	7.5	10.9	17.6	11.7
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°	1017.8	1017.8	1017.8	1017.8	1017.8	1017.8	1017.8	1017.8	1017.8	1017.8	1017.8
2.5°	1033.7	1010.3	989.4	958.4	937.5	914.0	898.1	878.9	871.3	865.5	857.1
5°	1057.2	1019.5	968.4	911.5	864.6	820.3	779.3	752.5	729.0	725.7	714.0
7.5°	1095.7	1039.6	953.4	860.5	780.9	707.3	649.5	602.7	579.2	571.7	558.3
10°	1146.7	1069.7	930.8	788.5	673.8	585.9	520.6	467.9	431.1	417.7	407.6
12.5°	1203.6	1097.3	894.8	699.8	569.2	468.7	385.9	329.8	306.4	298.0	290.4
15°	1268.9	1123.3	837.9	611.0	467.1	344.9	286.3	262.0	251.9	249.4	246.9
17.5°	1331.7	1140.0	770.1	519.0	359.1	267.8	240.2	231.0	228.5	226.0	224.3
20°	1402.9	1151.7	690.5	431.9	278.7	226.8	213.4	206.7	201.7	196.7	195.9
22.5°	1475.7	1151.7	604.3	346.5	233.5	203.4	188.3	175.8	166.6	161.5	159.9
25°	1545.2	1135.8	519.0	277.1	205.9	180.8	161.5	147.3	134.8	128.9	127.2
27.5°	1594.5	1094.8	444.5	234.4	186.7	160.7	137.3	121.4	111.3	105.5	104.6
30°	1625.5	1033.7	375.8	209.3	169.9	139.8	116.3	103.0	95.4	91.2	89.6
32.5°	1648.9	958.4	314.7	191.7	154.0	121.4	101.3	90.4	83.7	80.4	79.5
35°	1695.8	887.2	269.5	175.8	137.3	106.3	88.7	80.4	75.3	71.1	70.3
37.5°	1761.1	827.8	233.5	161.5	121.4	94.6	80.4	72.8	68.6	64.5	63.6
40°	1857.4	790.2	206.7	147.3	107.1	85.4	73.7	67.0	61.1	56.9	56.1
42.5°	2005.5	772.6	189.2	133.1	94.6	77.0	67.8	59.4	53.6	49.4	48.5
45°	2182.1	781.8	174.1	118.9	86.2	71.1	60.3	51.9	46.0	41.9	41.0
47.5°	2371.3	814.4	161.5	105.5	77.8	65.3	53.6	44.4	39.3	35.2	34.3
50°	2568.8	868.0	150.7	92.9	71.1	58.6	46.0	38.5	33.5	30.1	29.3
52.5°	2740.4	940.8	139.8	83.7	65.3	51.9	40.2	33.5	28.5	25.1	24.3
55°	2904.5	1009.5	131.4	75.3	58.6	45.2	35.2	28.5	24.3	20.9	20.1
57.5°	3082.8	1082.3	121.4	67.8	52.7	40.2	31.0	24.3	20.9	17.6	16.7
60°	3342.2	1190.3	106.3	61.9	46.0	35.2	26.8	21.8	18.4	14.2	13.4
62.5°	3716.4	1387.0	89.6	53.6	39.3	30.1	22.6	18.4	15.1	11.7	10.0
65°	4416.1	1721.8	73.7	44.4	31.8	25.1	19.3	15.1	11.7	8.4	7.5
67.5°	4920.0	1808.8	59.4	36.0	25.9	19.3	15.9	11.7	8.4	5.9	5.0
70°	4301.5	1299.1	46.0	29.3	21.8	15.1	12.6	9.2	5.9	4.2	3.3
72.5°	3241.0	848.7	34.3	22.6	16.7	12.6	9.2	7.5	5.0	3.3	2.5
75°	2284.2	490.5	25.1	16.7	11.7	9.2	7.5	5.9	4.2	2.5	2.5
77.5°	1171.0	202.6	17.6	11.7	8.4	5.9	5.0	3.3	3.3	2.5	1.7
80°	355.7	67.0	10.0	7.5	5.9	4.2	2.5	2.5	2.5	1.7	0.8
82.5°	81.2	21.8	5.9	5.9	4.2	3.3	2.5	0.8	0.8	0.0	0.0
85°	20.9	6.7	5.0	4.2	4.2	3.3	1.7	0.8	0.0	0.0	0.0
87.5°	7.5	4.2	4.2	4.2	3.3	2.5	1.7	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)