

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: P637995

Luminaire Tested: GWS-SA4D-830-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637995
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-SA4D-830-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14572 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

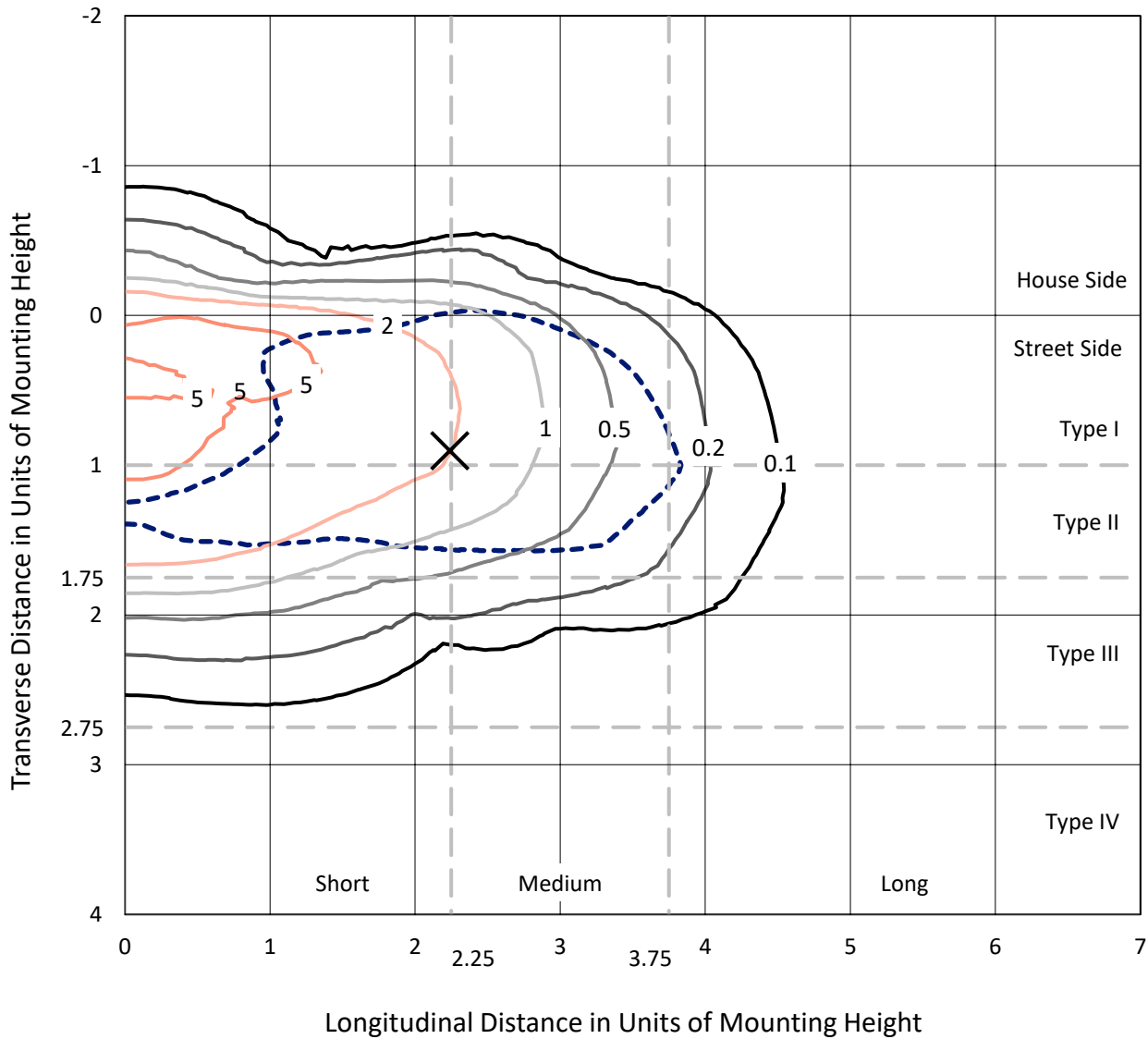
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

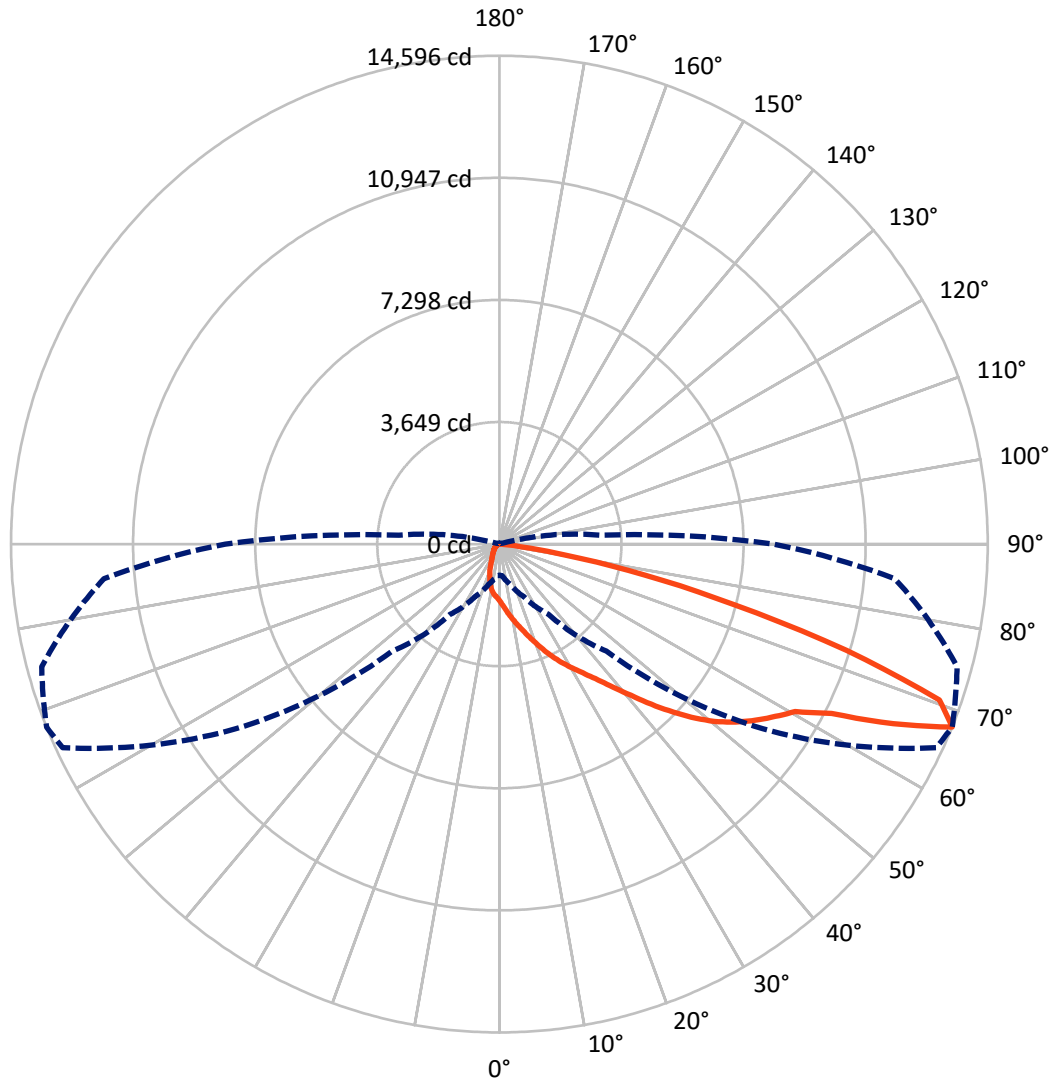
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.8 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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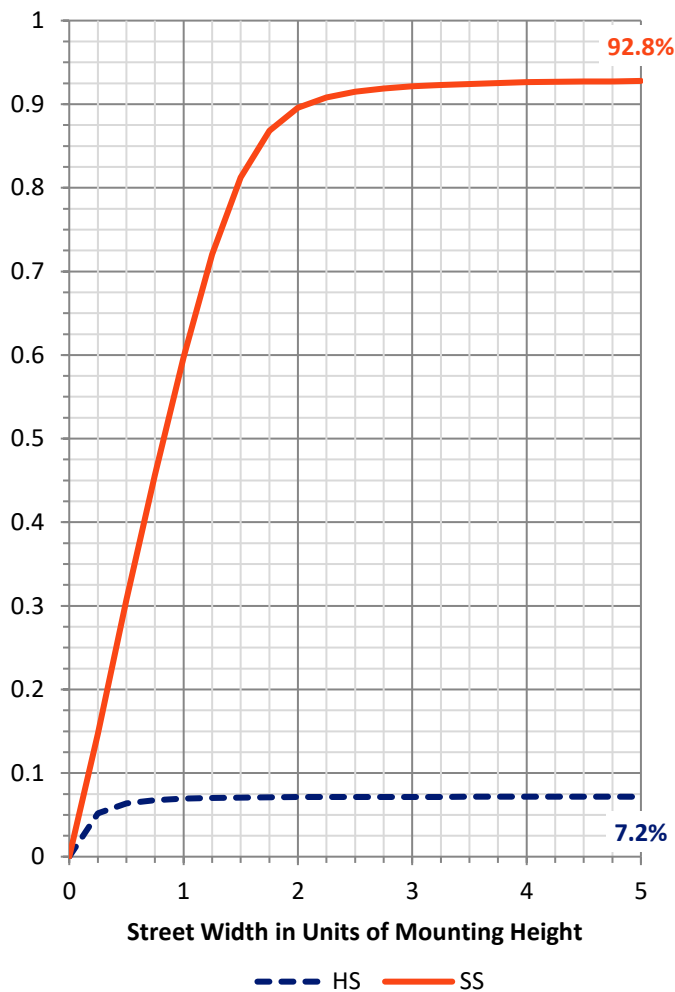
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1052.3	0.0	1052.3
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	13519.7	0.0	13519.7
	% Fixture	92.8	0.0	92.8
Total	Lumens	14572.0	0.0	14572.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.4	1.1
10°-20°	475.0	3.3
20°-30°	816.2	5.6
30°-40°	1419.1	9.7
40°-50°	2476.2	17.0
50°-60°	3734.7	25.6
60°-70°	3744.9	25.7
70°-80°	1652.3	11.3
80°-90°	88.3	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°	14572.0	100.0
0°-180°	14572.0	100.0

Coefficient of Utilization

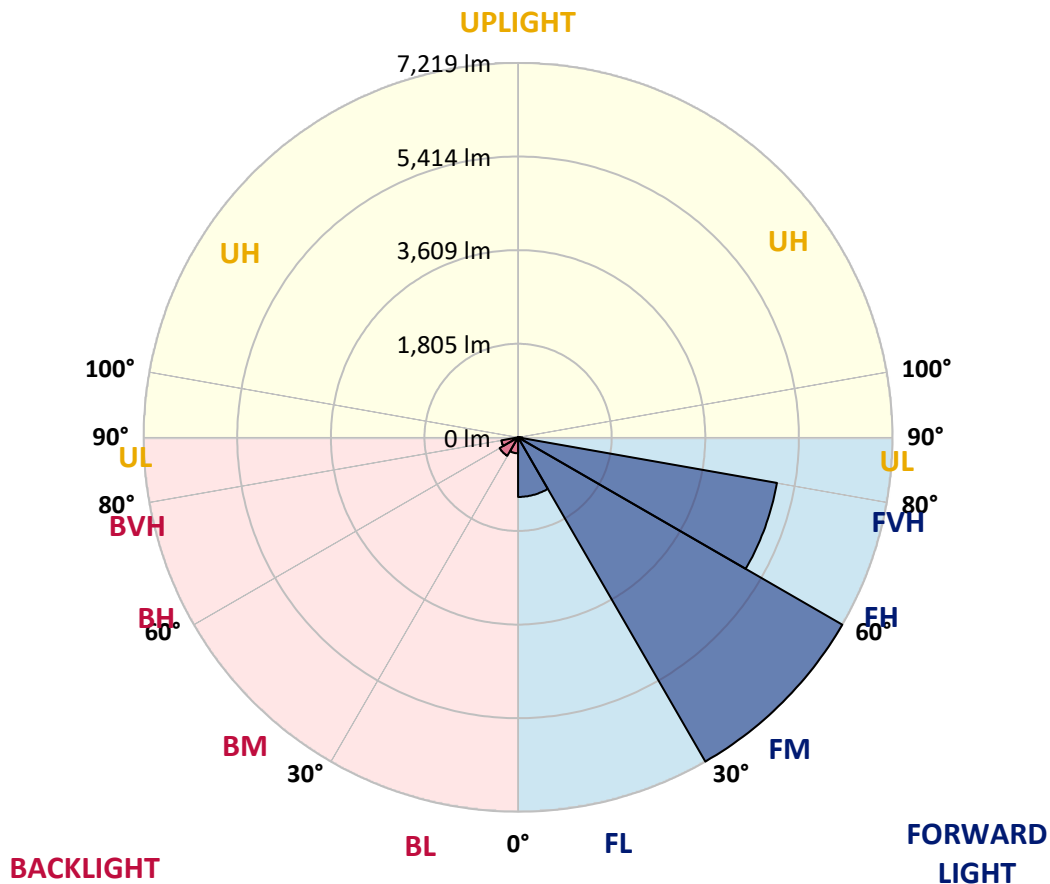


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1148.7	7.9			
FM (30°-60°)	7218.9	49.5			
FH (60°-80°)	5068.8	34.8			G3/7500
FVH (80°-90°)	83.3	0.6			G1/100
BL (0°-30°)	307.8	2.1	B1/500		
BM (30°-60°)	411.0	2.8	B1/1000		
BH (60°-80°)	328.4	2.3	B1/500		G1/500
BVH (80°-90°)	5.0	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-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1695.8	1695.8	1695.8	1695.8	1695.8	1695.8	1695.8	1695.8	1695.8	1695.8	1695.8
2.5°	1974.7	1987.3	1974.7	1977.5	1941.3	1924.5	1888.3	1838.1	1825.5	1793.4	1744.6
5°	2216.0	2227.1	2214.6	2211.8	2170.0	2139.3	2079.3	1992.9	1967.8	1905.0	1808.8
7.5°	2347.1	2354.1	2358.2	2365.2	2349.9	2324.8	2270.4	2163.0	2136.5	2034.7	1899.4
10°	2361.0	2366.6	2387.5	2429.4	2460.0	2475.4	2444.7	2345.7	2303.8	2204.8	2011.0
12.5°	2322.0	2330.3	2363.8	2433.5	2518.6	2596.7	2616.2	2529.8	2492.1	2365.2	2142.1
15°	2270.4	2277.4	2323.4	2418.2	2546.5	2690.1	2771.0	2733.4	2691.5	2559.1	2287.1
17.5°	2190.9	2200.6	2264.8	2393.1	2559.1	2764.1	2938.4	2950.9	2921.6	2778.0	2447.5
20°	2146.3	2153.2	2210.4	2342.9	2550.7	2818.4	3094.6	3213.1	3181.0	3030.4	2631.6
22.5°	2183.9	2189.5	2227.1	2330.3	2522.8	2849.1	3239.6	3475.3	3457.2	3301.0	2825.4
25°	2381.9	2400.1	2377.8	2395.9	2535.3	2865.9	3356.8	3737.5	3741.7	3584.1	3026.2
27.5°	2783.6	2759.9	2706.9	2616.2	2633.0	2910.5	3457.2	3984.3	4020.6	3860.2	3204.7
30°	3192.2	3178.2	3146.2	3005.3	2888.2	3009.5	3542.2	4236.7	4293.9	4132.1	3363.7
32.5°	3651.0	3665.0	3607.8	3439.0	3239.6	3210.3	3630.1	4476.6	4584.0	4440.3	3550.6
35°	4199.1	4203.3	4090.3	3903.4	3677.5	3542.2	3787.7	4741.6	4939.6	4833.6	3800.2
37.5°	4733.2	4758.3	4696.9	4402.7	4201.9	3955.0	4048.5	5081.9	5360.8	5318.9	4114.0
40°	5206.0	5245.0	5225.5	4941.0	4677.4	4469.6	4452.9	5480.7	5869.8	5917.2	4528.2
42.5°	5582.5	5607.6	5622.9	5420.7	5187.8	5070.7	4952.2	5943.7	6470.9	6664.7	5035.8
45°	5980.0	5988.3	6020.4	5883.7	5680.1	5689.9	5542.1	6505.7	7104.0	7493.1	5618.8
47.5°	6486.2	6514.1	6498.7	6355.1	6171.0	6281.2	6151.5	7084.5	7728.8	8377.2	6215.6
50°	7102.6	7131.9	7117.9	6950.6	6745.6	6791.6	6710.7	7646.5	8331.2	9211.2	6712.1
52.5°	7420.6	7444.3	7617.2	7692.5	7585.1	7292.3	7187.7	8264.3	8840.2	9897.3	7168.1
55°	7267.2	7283.9	7660.4	7978.4	8371.7	8078.8	7667.4	8741.2	9289.3	10432.9	7507.0
57.5°	6631.2	6721.9	7233.7	7772.0	8599.0	8855.6	8445.6	9260.0	9721.6	10805.2	7840.3
60°	5327.3	5323.1	6056.7	7023.1	8155.5	9069.0	9544.5	9961.5	10155.3	11091.1	8286.6
62.5°	2944.0	2970.5	3946.7	5219.9	6922.7	8516.7	10368.7	11173.4	11144.1	11590.4	8985.3
65°	1465.7	1518.7	2048.6	2990.0	4606.3	7038.4	10511.0	13022.6	12938.9	12766.0	10428.7
67.5°	930.2	951.1	1244.0	1737.6	2560.5	4524.0	9625.4	14401.8	14595.7	14160.6	11860.9
70°	602.5	637.3	864.6	1188.2	1545.2	2331.7	7051.0	13507.9	13952.8	14007.2	10968.4
72.5°	327.7	352.8	552.3	847.9	1115.7	1165.9	3960.6	10137.2	10852.6	11881.8	8580.9
75°	186.9	205.0	302.6	576.0	818.6	709.8	1755.8	6786.0	7242.1	8491.6	6148.7
77.5°	113.0	128.3	170.1	280.3	513.2	474.2	663.8	4130.7	4420.8	5066.5	3227.1
80°	51.6	61.4	107.4	154.8	280.3	224.5	253.8	1925.9	1988.7	2079.3	1068.2
82.5°	23.7	27.9	48.8	92.0	159.0	129.7	97.6	444.9	626.2	592.7	271.9
85°	2.8	2.8	18.1	37.7	44.6	33.5	40.4	100.4	126.9	178.5	78.1
87.5°	0.0	0.0	1.4	1.4	2.8	4.2	8.4	12.6	18.1	29.3	19.5
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°	1695.8	1695.8	1695.8	1695.8	1695.8	1695.8	1695.8	1695.8	1695.8	1695.8	1695.8
2.5°	1722.3	1683.3	1648.4	1596.8	1561.9	1522.9	1496.4	1464.3	1451.8	1442.0	1428.1
5°	1761.4	1698.6	1613.5	1518.7	1440.6	1366.7	1298.4	1253.7	1214.7	1209.1	1189.6
7.5°	1825.5	1732.1	1588.4	1433.6	1301.1	1178.4	1082.2	1004.1	965.0	952.5	930.2
10°	1910.6	1782.3	1550.8	1313.7	1122.6	976.2	867.4	779.6	718.2	695.9	679.2
12.5°	2005.4	1828.3	1490.8	1165.9	948.3	781.0	642.9	549.5	510.4	496.5	483.9
15°	2114.2	1871.5	1396.0	1018.0	778.2	574.6	476.9	436.5	419.8	415.6	411.4
17.5°	2218.8	1899.4	1283.0	864.6	598.3	446.3	400.2	384.9	380.7	376.5	373.7
20°	2337.3	1918.9	1150.5	719.6	464.4	377.9	355.6	344.5	336.1	327.7	326.3
22.5°	2458.6	1918.9	1006.9	577.4	389.1	338.9	313.8	292.9	277.5	269.2	266.4
25°	2574.4	1892.4	864.6	461.6	343.1	301.2	269.2	245.4	224.5	214.8	212.0
27.5°	2656.7	1824.1	740.5	390.5	311.0	267.8	228.7	202.2	185.5	175.7	174.3
30°	2708.3	1722.3	626.2	348.6	283.1	232.9	193.8	171.5	159.0	152.0	149.2
32.5°	2747.3	1596.8	524.4	319.4	256.6	202.2	168.7	150.6	139.5	133.9	132.5
35°	2825.4	1478.3	449.1	292.9	228.7	177.1	147.8	133.9	125.5	118.5	117.1
37.5°	2934.2	1379.2	389.1	269.2	202.2	157.6	133.9	121.3	114.4	107.4	106.0
40°	3094.6	1316.5	344.5	245.4	178.5	142.2	122.7	111.6	101.8	94.8	93.4
42.5°	3341.4	1287.2	315.2	221.7	157.6	128.3	113.0	99.0	89.3	82.3	80.9
45°	3635.7	1302.5	290.1	198.0	143.6	118.5	100.4	86.5	76.7	69.7	68.3
47.5°	3950.8	1356.9	269.2	175.7	129.7	108.8	89.3	73.9	65.5	58.6	57.2
50°	4280.0	1446.2	251.0	154.8	118.5	97.6	76.7	64.2	55.8	50.2	48.8
52.5°	4565.9	1567.5	232.9	139.5	108.8	86.5	66.9	55.8	47.4	41.8	40.4
55°	4839.2	1681.9	218.9	125.5	97.6	75.3	58.6	47.4	40.4	34.9	33.5
57.5°	5136.2	1803.2	202.2	113.0	87.9	66.9	51.6	40.4	34.9	29.3	27.9
60°	5568.6	1983.1	177.1	103.2	76.7	58.6	44.6	36.3	30.7	23.7	22.3
62.5°	6191.9	2310.8	149.2	89.3	65.5	50.2	37.7	30.7	25.1	19.5	16.7
65°	7357.8	2868.7	122.7	73.9	53.0	41.8	32.1	25.1	19.5	13.9	12.6
67.5°	8197.3	3013.7	99.0	60.0	43.2	32.1	26.5	19.5	13.9	9.8	8.4
70°	7166.8	2164.4	76.7	48.8	36.3	25.1	20.9	15.3	9.8	7.0	5.6
72.5°	5399.8	1414.1	57.2	37.7	27.9	20.9	15.3	12.6	8.4	5.6	4.2
75°	3805.8	817.2	41.8	27.9	19.5	15.3	12.6	9.8	7.0	4.2	4.2
77.5°	1951.0	337.5	29.3	19.5	13.9	9.8	8.4	5.6	5.6	4.2	2.8
80°	592.7	111.6	16.7	12.6	9.8	7.0	4.2	4.2	4.2	2.8	1.4
82.5°	135.3	36.3	9.8	9.8	7.0	5.6	4.2	1.4	1.4	0.0	0.0
85°	34.9	11.2	8.4	7.0	7.0	5.6	2.8	1.4	0.0	0.0	0.0
87.5°	12.6	7.0	7.0	7.0	5.6	4.2	2.8	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)