

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: P637665

Luminaire Tested: GWS-SA4D-730-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637665
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-730-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, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16704 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

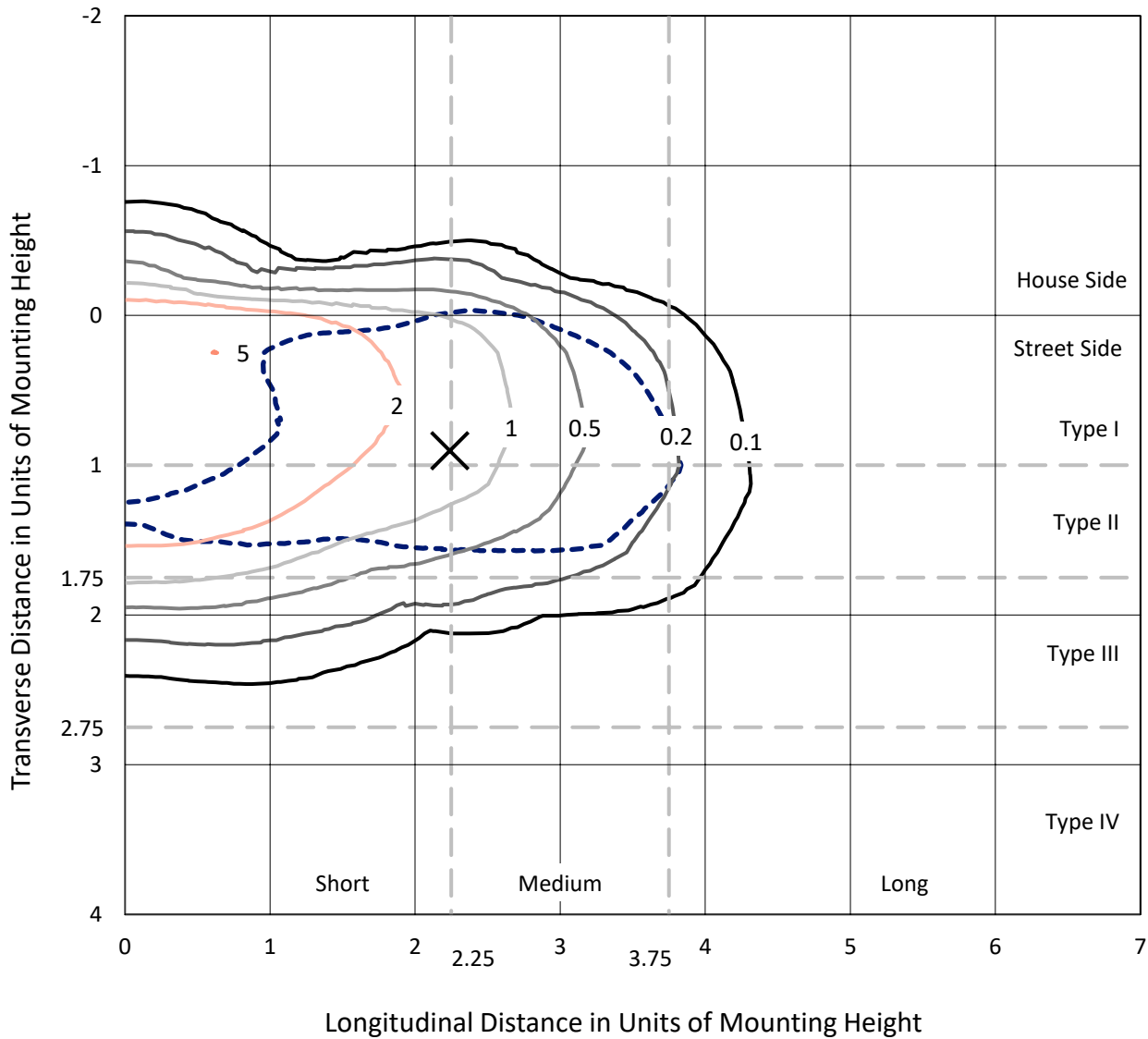
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

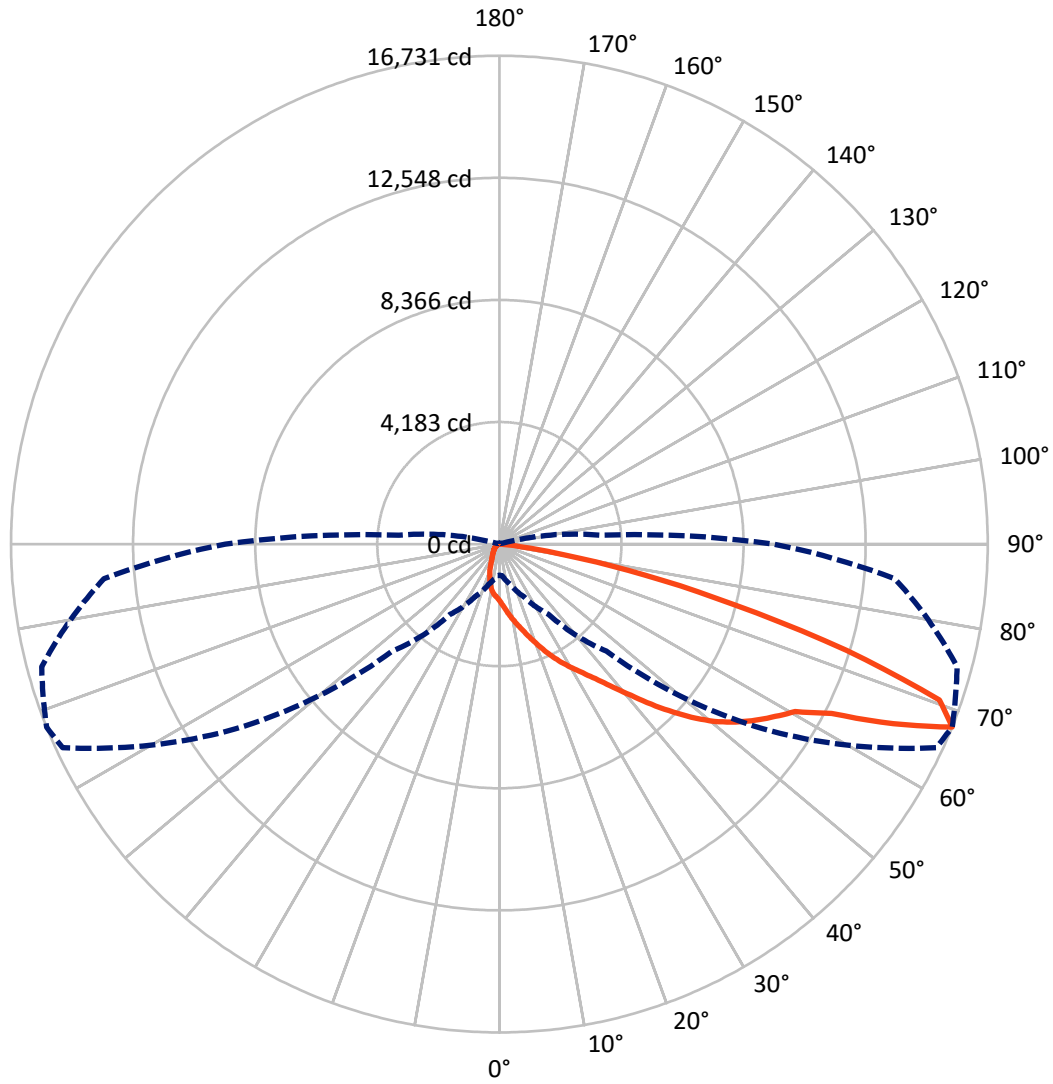
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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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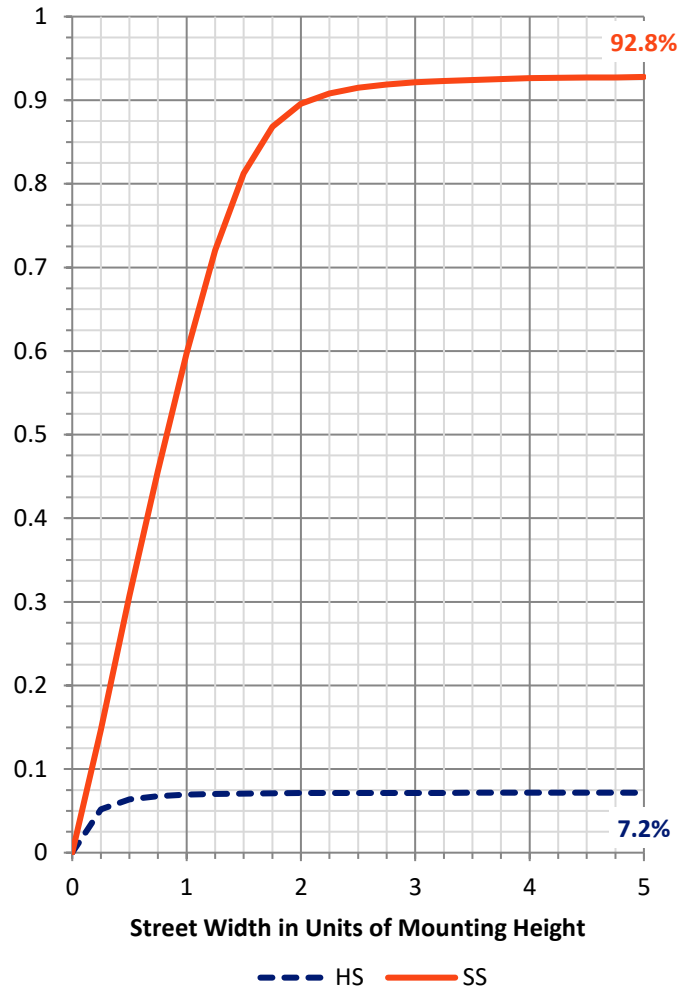
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1206.2	0.0	1206.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	15497.8	0.0	15497.8
	% Fixture	92.8	0.0	92.8
Total	Lumens	16704.0	0.0	16704.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.6	1.1
10°-20°	544.5	3.3
20°-30°	935.6	5.6
30°-40°	1626.7	9.7
40°-50°	2838.5	17.0
50°-60°	4281.1	25.6
60°-70°	4292.9	25.7
70°-80°	1894.0	11.3
80°-90°	101.2	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°	16704.0	100.0
0°-180°	16704.0	100.0

Coefficient of Utilization

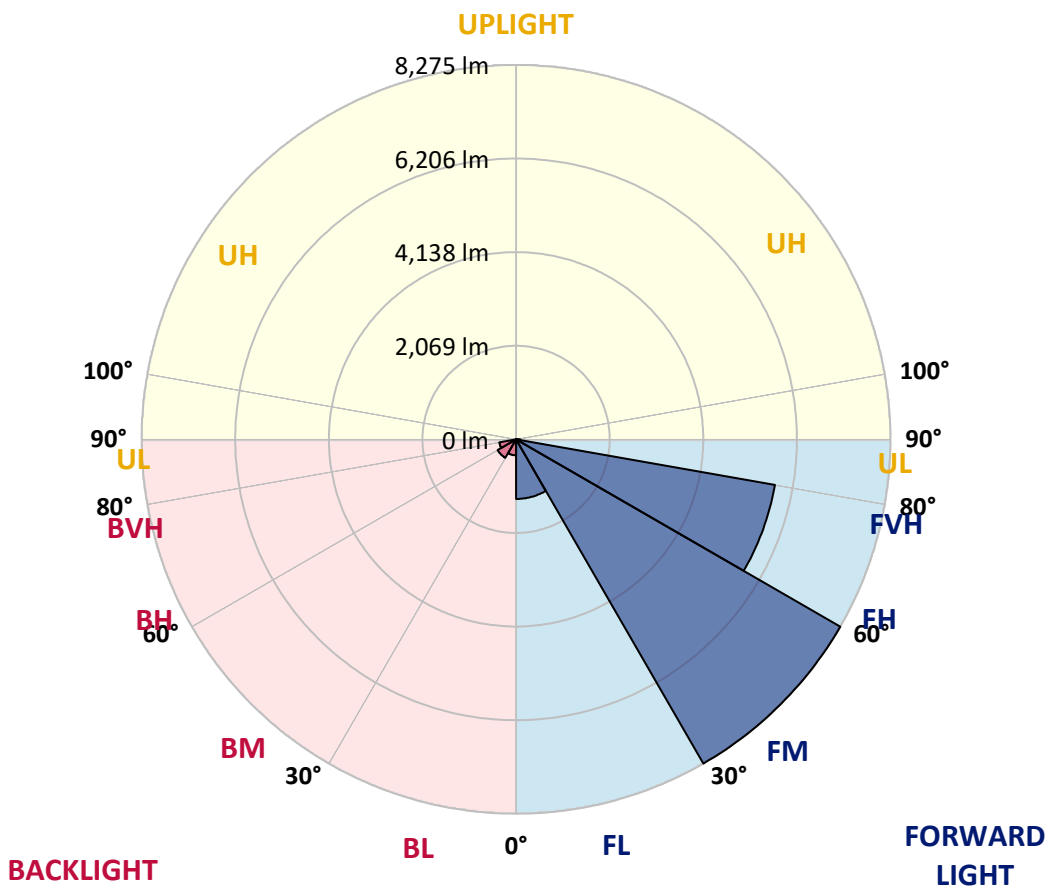


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1316.8	7.9			
FM (30°-60°)	8275.1	49.5			
FH (60°-80°)	5810.4	34.8			G3/7500
FVH (80°-90°)	95.5	0.6			G1/100
BL (0°-30°)	352.9	2.1	B1/500		
BM (30°-60°)	471.2	2.8	B1/1000		
BH (60°-80°)	376.5	2.3	B1/500		G1/500
BVH (80°-90°)	5.7	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°	1943.9	1943.9	1943.9	1943.9	1943.9	1943.9	1943.9	1943.9	1943.9	1943.9	1943.9
2.5°	2263.6	2278.0	2263.6	2266.8	2225.3	2206.1	2164.5	2107.0	2092.6	2055.8	1999.9
5°	2540.2	2553.0	2538.6	2535.4	2487.5	2452.3	2383.5	2284.4	2255.7	2183.7	2073.4
7.5°	2690.5	2698.5	2703.3	2711.3	2693.7	2664.9	2602.6	2479.5	2449.1	2332.4	2177.3
10°	2706.5	2712.9	2736.8	2784.8	2820.0	2837.5	2802.4	2688.9	2640.9	2527.4	2305.2
12.5°	2661.7	2671.3	2709.7	2789.6	2887.1	2976.6	2999.0	2899.9	2856.7	2711.3	2455.5
15°	2602.6	2610.5	2663.3	2772.0	2919.1	3083.7	3176.5	3133.3	3085.3	2933.5	2621.7
17.5°	2511.4	2522.6	2596.2	2743.2	2933.5	3168.5	3368.3	3382.7	3349.1	3184.4	2805.6
20°	2460.3	2468.3	2533.8	2685.7	2923.9	3230.8	3547.3	3683.2	3646.5	3473.8	3016.6
22.5°	2503.4	2509.8	2553.0	2671.3	2891.9	3266.0	3713.6	3983.8	3963.0	3783.9	3238.8
25°	2730.4	2751.2	2725.6	2746.4	2906.3	3285.2	3847.9	4284.3	4289.1	4108.5	3469.0
27.5°	3190.8	3163.7	3102.9	2999.0	3018.2	3336.3	3963.0	4567.3	4608.8	4425.0	3673.6
30°	3659.2	3643.3	3606.5	3445.0	3310.7	3449.8	4060.5	4856.6	4922.1	4736.7	3855.9
32.5°	4185.2	4201.2	4135.6	3942.2	3713.6	3680.0	4161.2	5131.6	5254.7	5090.0	4070.1
35°	4813.4	4818.2	4688.7	4474.5	4215.6	4060.5	4341.8	5435.3	5662.3	5540.8	4356.2
37.5°	5425.7	5454.5	5384.1	5046.8	4816.6	4533.7	4640.8	5825.4	6145.1	6097.1	4715.9
40°	5967.6	6012.4	5990.0	5663.9	5361.8	5123.6	5104.4	6282.6	6728.6	6782.9	5190.7
42.5°	6399.3	6428.0	6445.6	6213.8	5946.9	5812.6	5676.7	6813.3	7417.6	7639.8	5772.6
45°	6854.9	6864.5	6901.2	6744.6	6511.2	6522.4	6352.9	7457.6	8143.4	8589.4	6440.8
47.5°	7435.2	7467.1	7449.6	7284.9	7073.9	7200.2	7051.5	8121.0	8859.5	9602.9	7125.0
50°	8141.8	8175.3	8159.4	7967.5	7732.5	7785.3	7692.6	8765.2	9550.2	10558.9	7694.2
52.5°	8506.3	8533.4	8731.7	8818.0	8694.9	8359.2	8239.3	9473.4	10133.6	11345.4	8216.9
55°	8330.4	8349.6	8781.2	9145.7	9596.5	9260.8	8789.2	10020.1	10648.4	11959.3	8605.4
57.5°	7601.4	7705.3	8292.0	8909.1	9857.1	10151.2	9681.2	10614.8	11144.0	12386.1	8987.4
60°	6106.7	6101.9	6942.8	8050.6	9348.7	10395.8	10940.9	11418.9	11641.1	12713.8	9499.0
62.5°	3374.7	3405.1	4524.1	5983.6	7935.5	9762.8	11885.7	12808.1	12774.6	13286.1	10299.9
65°	1680.1	1740.9	2348.4	3427.4	5280.2	8068.2	12048.8	14927.9	14832.0	14633.8	11954.5
67.5°	1066.3	1090.3	1426.0	1991.9	2935.1	5185.9	11033.7	16508.9	16731.1	16232.4	13596.3
70°	690.6	730.6	991.1	1362.0	1771.3	2672.9	8082.6	15484.2	15994.2	16056.5	12573.1
72.5°	375.7	404.5	633.1	972.0	1278.9	1336.4	4540.1	11620.4	12440.5	13620.2	9836.3
75°	214.2	235.0	346.9	660.2	938.4	813.7	2012.7	7778.9	8301.6	9734.0	7048.3
77.5°	129.5	147.1	195.0	321.3	588.3	543.5	760.9	4735.1	5067.6	5807.8	3699.2
80°	59.1	70.3	123.1	177.4	321.3	257.4	290.9	2207.7	2279.6	2383.5	1224.5
82.5°	27.2	32.0	56.0	105.5	182.2	148.7	111.9	510.0	717.8	679.4	311.7
85°	3.2	3.2	20.8	43.2	51.2	38.4	46.4	115.1	145.5	204.6	89.5
87.5°	0.0	0.0	1.6	1.6	3.2	4.8	9.6	14.4	20.8	33.6	22.4
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°	1943.9	1943.9	1943.9	1943.9	1943.9	1943.9	1943.9	1943.9	1943.9	1943.9	1943.9
2.5°	1974.3	1929.5	1889.6	1830.4	1790.5	1745.7	1715.3	1678.6	1664.2	1653.0	1637.0
5°	2019.1	1947.1	1849.6	1740.9	1651.4	1566.6	1488.3	1437.2	1392.4	1386.0	1363.6
7.5°	2092.6	1985.5	1820.8	1643.4	1491.5	1350.8	1240.5	1151.0	1106.2	1091.9	1066.3
10°	2190.1	2043.0	1777.7	1505.9	1286.9	1119.0	994.3	893.6	823.3	797.7	778.5
12.5°	2298.8	2095.8	1708.9	1336.4	1087.1	895.2	737.0	629.9	585.1	569.1	554.7
15°	2423.5	2145.3	1600.2	1167.0	892.0	658.6	546.7	500.4	481.2	476.4	471.6
17.5°	2543.4	2177.3	1470.7	991.1	685.8	511.6	458.8	441.2	436.4	431.6	428.4
20°	2679.3	2199.7	1318.9	824.9	532.3	433.2	407.6	394.9	385.3	375.7	374.1
22.5°	2818.4	2199.7	1154.2	661.8	446.0	388.5	359.7	335.7	318.1	308.5	305.3
25°	2951.1	2169.3	991.1	529.1	393.3	345.3	308.5	281.4	257.4	246.2	243.0
27.5°	3045.4	2091.0	848.9	447.6	356.5	306.9	262.2	231.8	212.6	201.4	199.8
30°	3104.5	1974.3	717.8	399.7	324.5	267.0	222.2	196.6	182.2	174.2	171.1
32.5°	3149.3	1830.4	601.1	366.1	294.1	231.8	193.4	172.7	159.9	153.5	151.9
35°	3238.8	1694.5	514.8	335.7	262.2	203.0	169.5	153.5	143.9	135.9	134.3
37.5°	3363.5	1581.0	446.0	308.5	231.8	180.6	153.5	139.1	131.1	123.1	121.5
40°	3547.3	1509.1	394.9	281.4	204.6	163.1	140.7	127.9	116.7	108.7	107.1
42.5°	3830.3	1475.5	361.3	254.2	180.6	147.1	129.5	113.5	102.3	94.3	92.7
45°	4167.6	1493.1	332.5	227.0	164.7	135.9	115.1	99.1	87.9	79.9	78.3
47.5°	4528.9	1555.5	308.5	201.4	148.7	124.7	102.3	84.7	75.1	67.1	65.5
50°	4906.2	1657.8	287.8	177.4	135.9	111.9	87.9	73.5	63.9	57.6	56.0
52.5°	5233.9	1796.8	267.0	159.9	124.7	99.1	76.7	63.9	54.4	48.0	46.4
55°	5547.2	1927.9	251.0	143.9	111.9	86.3	67.1	54.4	46.4	40.0	38.4
57.5°	5887.7	2067.0	231.8	129.5	100.7	76.7	59.1	46.4	40.0	33.6	32.0
60°	6383.3	2273.2	203.0	118.3	87.9	67.1	51.2	41.6	35.2	27.2	25.6
62.5°	7097.9	2648.9	171.1	102.3	75.1	57.6	43.2	35.2	28.8	22.4	19.2
65°	8434.3	3288.4	140.7	84.7	60.7	48.0	36.8	28.8	22.4	16.0	14.4
67.5°	9396.7	3454.6	113.5	68.7	49.6	36.8	30.4	22.4	16.0	11.2	9.6
70°	8215.3	2481.1	87.9	56.0	41.6	28.8	24.0	17.6	11.2	8.0	6.4
72.5°	6189.9	1621.0	65.5	43.2	32.0	24.0	17.6	14.4	9.6	6.4	4.8
75°	4362.6	936.8	48.0	32.0	22.4	17.6	14.4	11.2	8.0	4.8	4.8
77.5°	2236.5	386.9	33.6	22.4	16.0	11.2	9.6	6.4	6.4	4.8	3.2
80°	679.4	127.9	19.2	14.4	11.2	8.0	4.8	4.8	4.8	3.2	1.6
82.5°	155.1	41.6	11.2	11.2	8.0	6.4	4.8	1.6	1.6	0.0	0.0
85°	40.0	12.8	9.6	8.0	8.0	6.4	3.2	1.6	0.0	0.0	0.0
87.5°	14.4	8.0	8.0	8.0	6.4	4.8	3.2	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)