

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: P640140

Luminaire Tested: GWS-SA5D-730-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640140
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-SA5D-730-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20491.1 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

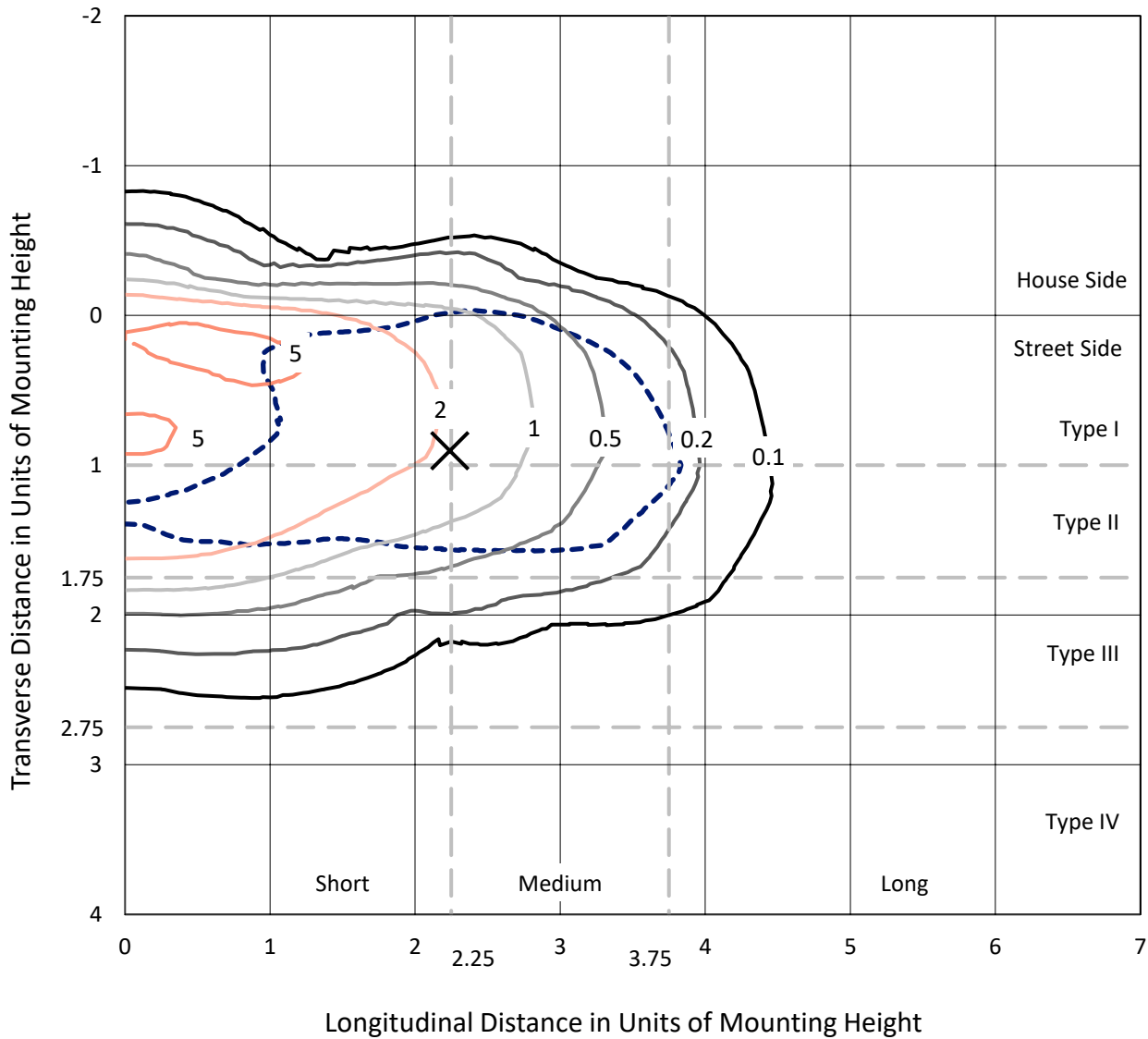
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

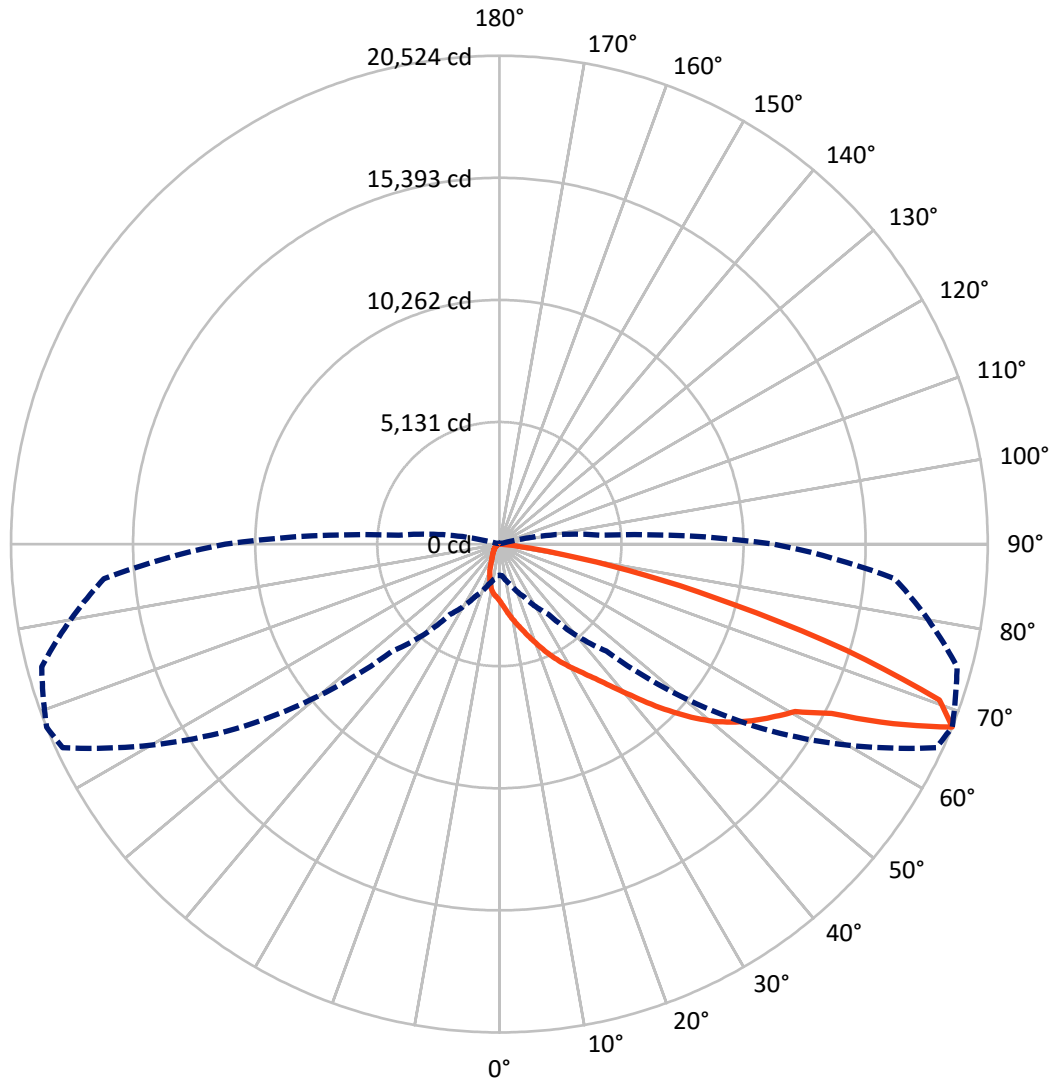
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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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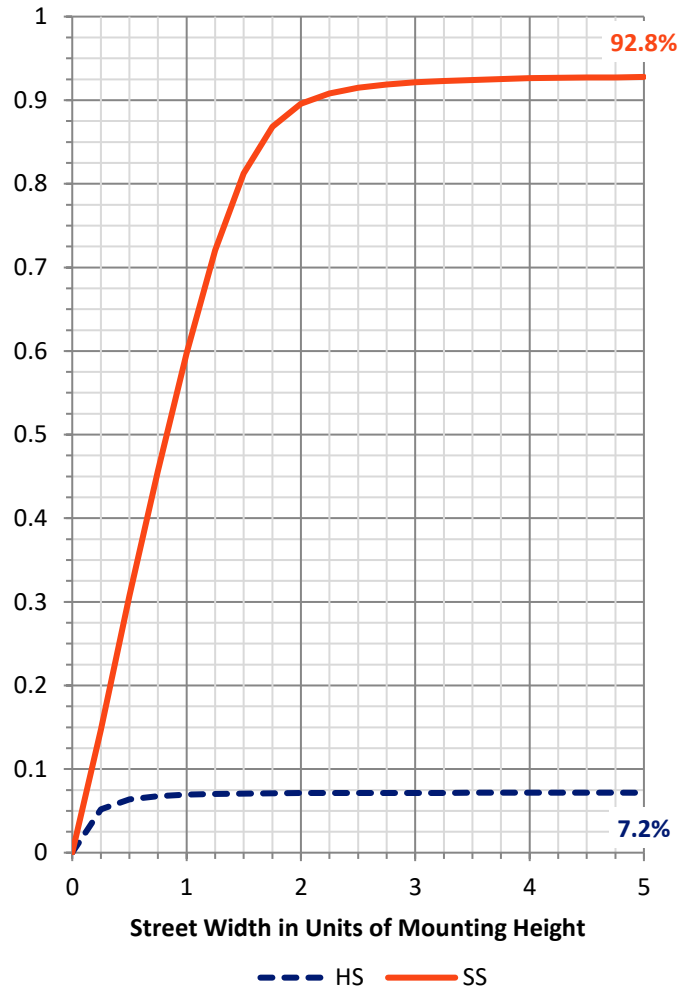
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1479.7	0.0	1479.7
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	19011.4	0.0	19011.4
	% Fixture	92.8	0.0	92.8
Total	Lumens	20491.1	0.0	20491.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.6	1.1
10°-20°	667.9	3.3
20°-30°	1147.8	5.6
30°-40°	1995.5	9.7
40°-50°	3482.0	17.0
50°-60°	5251.7	25.6
60°-70°	5266.1	25.7
70°-80°	2323.4	11.3
80°-90°	124.1	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°	20491.1	100.0
0°-180°	20491.1	100.0

Coefficient of Utilization

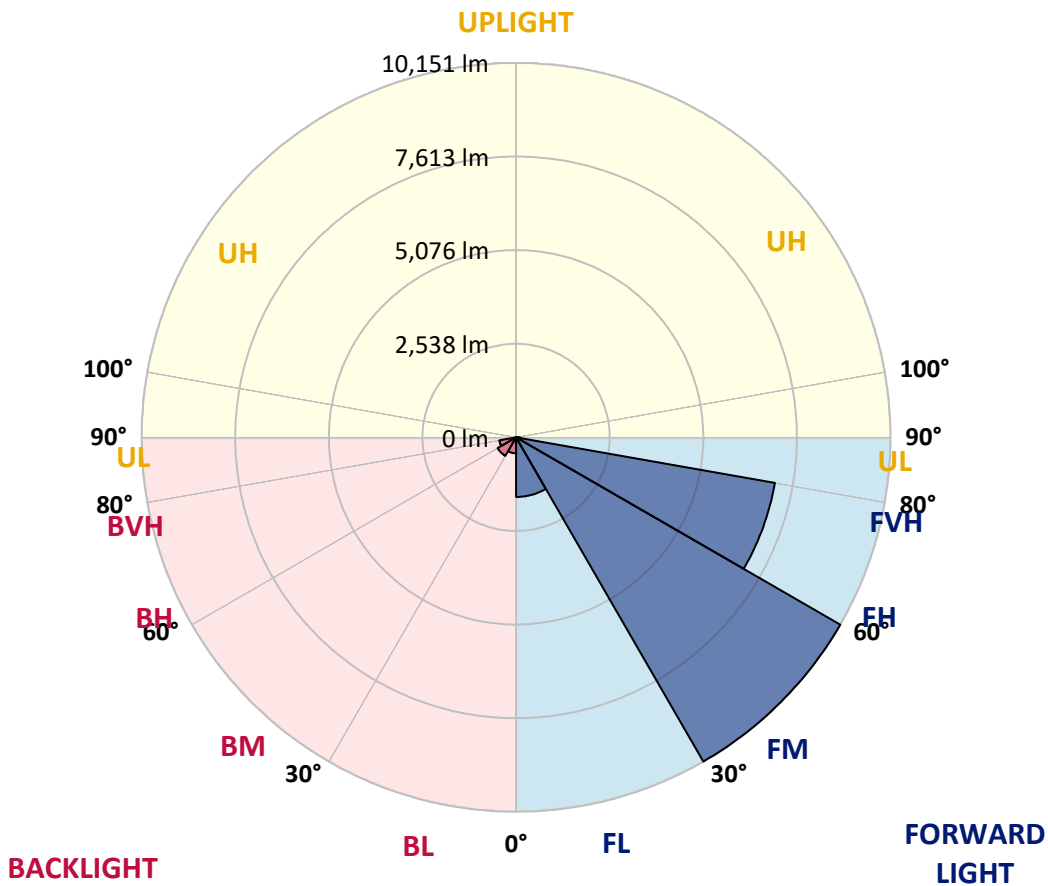


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1615.3	7.9			
FM (30°-60°)	10151.2	49.5			
FH (60°-80°)	7127.7	34.8			G3/7500
FVH (80°-90°)	117.1	0.6			G2/225
BL (0°-30°)	432.9	2.1	B1/500		
BM (30°-60°)	578.0	2.8	B1/1000		
BH (60°-80°)	461.8	2.3	B1/500		G1/500
BVH (80°-90°)	7.0	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°	2384.6	2384.6	2384.6	2384.6	2384.6	2384.6	2384.6	2384.6	2384.6	2384.6	2384.6
2.5°	2776.9	2794.5	2776.9	2780.8	2729.8	2706.3	2655.3	2584.7	2567.0	2521.9	2453.3
5°	3116.1	3131.8	3114.2	3110.2	3051.4	3008.3	2923.9	2802.3	2767.0	2678.8	2543.5
7.5°	3300.5	3310.3	3316.1	3325.9	3304.4	3269.1	3192.6	3041.6	3004.3	2861.2	2671.0
10°	3320.1	3327.9	3357.3	3416.2	3459.3	3480.9	3437.7	3298.5	3239.7	3100.4	2827.8
12.5°	3265.2	3276.9	3324.0	3422.0	3541.7	3651.5	3678.9	3557.4	3504.4	3325.9	3012.2
15°	3192.6	3202.4	3267.1	3400.5	3580.9	3782.9	3896.6	3843.7	3784.8	3598.5	3216.1
17.5°	3080.8	3094.5	3184.8	3365.2	3598.5	3886.8	4131.9	4149.6	4108.4	3906.4	3441.7
20°	3018.1	3027.9	3108.3	3294.6	3586.8	3963.3	4351.6	4518.3	4473.2	4261.4	3700.5
22.5°	3071.0	3078.9	3131.8	3276.9	3547.5	4006.4	4555.5	4886.9	4861.5	4641.8	3973.1
25°	3349.5	3375.0	3343.6	3369.1	3565.2	4030.0	4720.3	5255.6	5261.5	5039.9	4255.5
27.5°	3914.3	3880.9	3806.4	3678.9	3702.5	4092.7	4861.5	5602.7	5653.7	5428.2	4506.5
30°	4488.9	4469.2	4424.1	4226.1	4061.3	4232.0	4981.1	5957.7	6038.1	5810.6	4730.1
32.5°	5134.0	5153.7	5073.2	4836.0	4555.5	4514.3	5104.6	6295.0	6446.0	6244.0	4992.8
35°	5904.7	5910.6	5751.8	5489.0	5171.3	4981.1	5326.2	6667.6	6946.1	6797.0	5343.9
37.5°	6655.8	6691.1	6604.8	6191.1	5908.7	5561.6	5692.9	7146.1	7538.3	7479.5	5785.1
40°	7320.6	7375.5	7348.1	6948.0	6577.4	6285.2	6261.6	7706.9	8254.1	8320.8	6367.5
42.5°	7850.1	7885.4	7907.0	7622.6	7295.1	7130.4	6963.7	8358.0	9099.3	9371.9	7081.4
45°	8409.0	8420.8	8465.9	8273.7	7987.4	8001.1	7793.2	9148.3	9989.6	10536.7	7901.1
47.5°	9120.9	9160.1	9138.5	8936.5	8677.7	8832.6	8650.2	9962.2	10868.2	11780.1	8740.4
50°	9987.7	10028.8	10009.2	9773.9	9485.6	9550.3	9436.6	10752.5	11715.3	12952.8	9438.6
52.5°	10434.8	10468.1	10711.3	10817.2	10666.2	10254.4	10107.3	11621.2	12431.1	13917.6	10079.8
55°	10219.1	10242.6	10772.1	11219.2	11772.2	11360.4	10781.9	12291.9	13062.6	14670.7	10556.4
57.5°	9324.8	9452.3	10172.0	10929.0	12091.9	12452.7	11876.1	13021.4	13670.5	15194.3	11025.1
60°	7491.2	7485.3	8516.9	9875.9	11468.3	12752.7	13421.5	14007.8	14280.4	15596.3	11652.6
62.5°	4139.8	4177.0	5549.8	7340.2	9734.7	11976.2	14580.4	15712.0	15670.8	16298.3	12635.1
65°	2061.1	2135.6	2880.8	4204.5	6477.4	9897.4	14780.5	18312.3	18194.7	17951.5	14664.8
67.5°	1308.0	1337.4	1749.3	2443.5	3600.5	6361.7	13535.2	20251.8	20524.4	19912.6	16678.8
70°	847.2	896.2	1215.9	1670.8	2172.8	3278.9	9915.1	18994.8	19620.4	19696.8	15423.7
72.5°	460.8	496.1	776.6	1192.3	1568.8	1639.4	5569.4	14254.9	15260.9	16708.2	12066.4
75°	262.8	288.3	425.5	809.9	1151.1	998.2	2469.0	9542.5	10183.8	11940.9	8646.3
77.5°	158.8	180.4	239.2	394.2	721.7	666.8	933.5	5808.6	6216.5	7124.5	4537.9
80°	72.6	86.3	151.0	217.7	394.2	315.7	356.9	2708.2	2796.5	2923.9	1502.2
82.5°	33.3	39.2	68.6	129.4	223.6	182.4	137.3	625.6	880.5	833.4	382.4
85°	3.9	3.9	25.5	52.9	62.8	47.1	56.9	141.2	178.5	251.0	109.8
87.5°	0.0	0.0	2.0	2.0	3.9	5.9	11.8	17.6	25.5	41.2	27.5
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°	2384.6	2384.6	2384.6	2384.6	2384.6	2384.6	2384.6	2384.6	2384.6	2384.6	2384.6
2.5°	2421.9	2367.0	2318.0	2245.4	2196.4	2141.5	2104.2	2059.1	2041.5	2027.7	2008.1
5°	2476.8	2388.6	2268.9	2135.6	2025.8	1921.8	1825.7	1763.0	1708.1	1700.2	1672.8
7.5°	2567.0	2435.6	2233.6	2016.0	1829.7	1657.1	1521.8	1412.0	1357.1	1339.4	1308.0
10°	2686.6	2506.2	2180.7	1847.3	1578.6	1372.7	1219.8	1096.2	1009.9	978.6	955.0
12.5°	2820.0	2570.9	2096.4	1639.4	1333.5	1098.2	904.0	772.7	717.7	698.1	680.5
15°	2973.0	2631.7	1963.0	1431.6	1094.3	808.0	670.7	613.8	590.3	584.4	578.5
17.5°	3120.0	2671.0	1804.2	1215.9	841.3	627.5	562.8	541.3	535.4	529.5	525.6
20°	3286.7	2698.4	1617.9	1011.9	653.0	531.4	500.1	484.4	472.6	460.8	458.9
22.5°	3457.3	2698.4	1415.9	811.9	547.1	476.5	441.2	411.8	390.2	378.5	374.6
25°	3620.1	2661.2	1215.9	649.1	482.4	423.6	378.5	345.1	315.7	302.0	298.1
27.5°	3735.8	2565.1	1041.3	549.1	437.3	376.5	321.6	284.4	260.8	247.1	245.1
30°	3808.4	2421.9	880.5	490.3	398.1	327.5	272.6	241.2	223.6	213.8	209.8
32.5°	3863.3	2245.4	737.4	449.1	360.8	284.4	237.3	211.8	196.1	188.3	186.3
35°	3973.1	2078.7	631.5	411.8	321.6	249.1	207.9	188.3	176.5	166.7	164.7
37.5°	4126.1	1939.5	547.1	378.5	284.4	221.6	188.3	170.6	160.8	151.0	149.0
40°	4351.6	1851.2	484.4	345.1	251.0	200.0	172.6	156.9	143.2	133.4	131.4
42.5°	4698.7	1810.1	443.2	311.8	221.6	180.4	158.8	139.2	125.5	115.7	113.7
45°	5112.5	1831.6	407.9	278.5	202.0	166.7	141.2	121.6	107.9	98.1	96.1
47.5°	5555.7	1908.1	378.5	247.1	182.4	153.0	125.5	103.9	92.2	82.4	80.4
50°	6018.5	2033.6	353.0	217.7	166.7	137.3	107.9	90.2	78.4	70.6	68.6
52.5°	6420.5	2204.2	327.5	196.1	153.0	121.6	94.1	78.4	66.7	58.8	56.9
55°	6804.9	2365.0	307.9	176.5	137.3	105.9	82.4	66.7	56.9	49.0	47.1
57.5°	7222.6	2535.6	284.4	158.8	123.5	94.1	72.6	56.9	49.0	41.2	39.2
60°	7830.5	2788.6	249.1	145.1	107.9	82.4	62.8	51.0	43.1	33.3	31.4
62.5°	8707.1	3249.5	209.8	125.5	92.2	70.6	52.9	43.1	35.3	27.5	23.5
65°	10346.5	4033.9	172.6	103.9	74.5	58.8	45.1	35.3	27.5	19.6	17.6
67.5°	11527.1	4237.8	139.2	84.3	60.8	45.1	37.3	27.5	19.6	13.7	11.8
70°	10077.9	3043.6	107.9	68.6	51.0	35.3	29.4	21.6	13.7	9.8	7.8
72.5°	7593.2	1988.5	80.4	52.9	39.2	29.4	21.6	17.6	11.8	7.8	5.9
75°	5351.7	1149.2	58.8	39.2	27.5	21.6	17.6	13.7	9.8	5.9	5.9
77.5°	2743.5	474.6	41.2	27.5	19.6	13.7	11.8	7.8	7.8	5.9	3.9
80°	833.4	156.9	23.5	17.6	13.7	9.8	5.9	5.9	5.9	3.9	2.0
82.5°	190.2	51.0	13.7	13.7	9.8	7.8	5.9	2.0	2.0	0.0	0.0
85°	49.0	15.7	11.8	9.8	9.8	7.8	3.9	2.0	0.0	0.0	0.0
87.5°	17.6	9.8	9.8	9.8	7.8	5.9	3.9	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)