

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: P640012

Luminaire Tested: GWS-SA5D-722-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640012
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-722-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21744.9 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

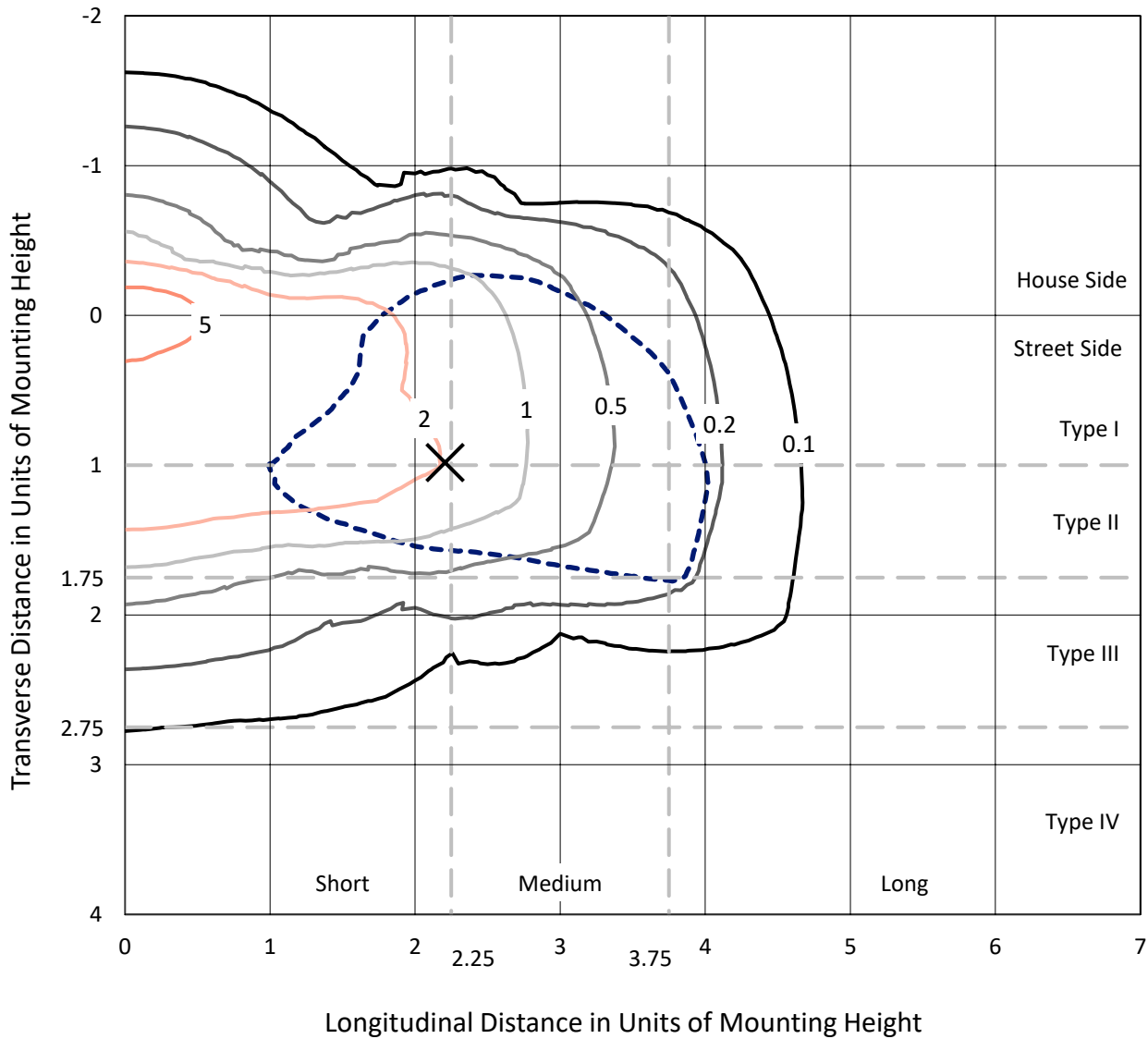
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

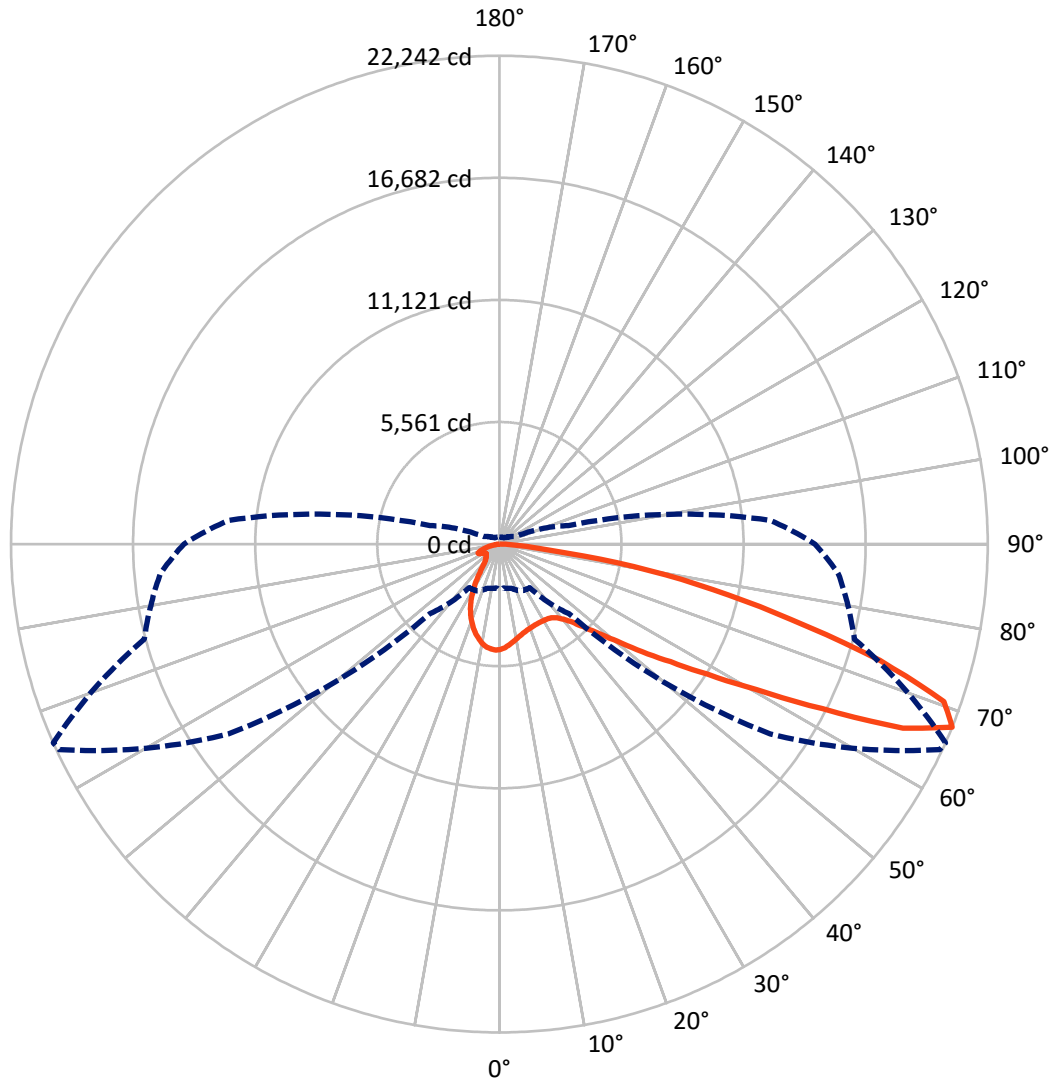
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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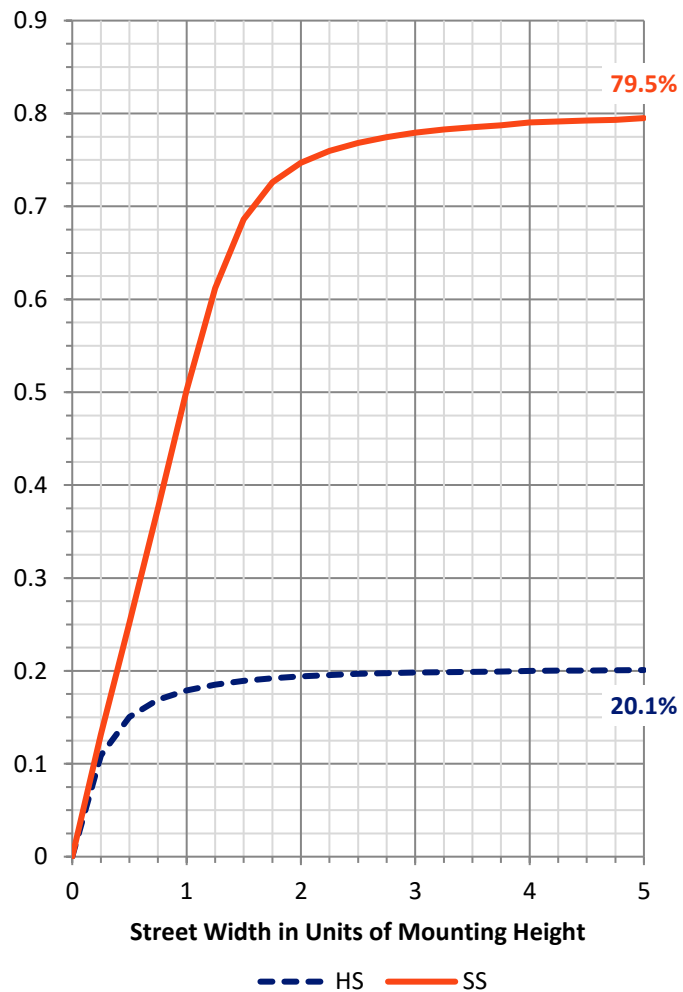
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4412.6	0.0	4412.6
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	17332.4	0.0	17332.4
	% Fixture	79.7	0.0	79.7
Total	Lumens	21744.9	0.0	21744.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.7	1.9
10°-20°	1036.4	4.8
20°-30°	1424.5	6.6
30°-40°	1947.6	9.0
40°-50°	2951.1	13.6
50°-60°	4587.5	21.1
60°-70°	5585.2	25.7
70°-80°	3402.3	15.6
80°-90°	388.6	1.8
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°	21744.9	100.0
0°-180°	21744.9	100.0

Coefficient of Utilization



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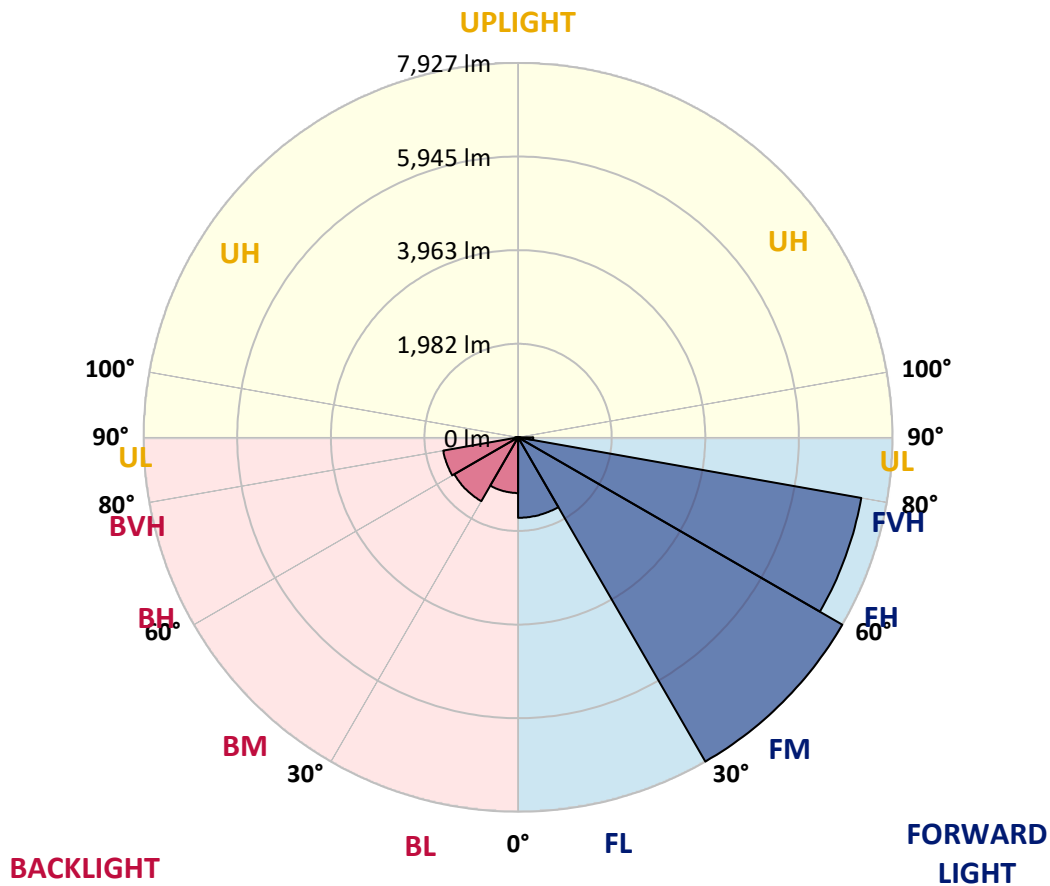
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1703.8	7.8			
FM (30°-60°)	7926.8	36.5			
FH (60°-80°)	7378.6	33.9			G3/7500
FVH (80°-90°)	323.1	1.5			G3/500
BL (0°-30°)	1178.8	5.4	B3/2500		
BM (30°-60°)	1559.3	7.2	B2/2500		
BH (60°-80°)	1608.9	7.4	B3/2500		G3/2500
BVH (80°-90°)	65.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4805.0	4805.0	4805.0	4805.0	4805.0	4805.0	4805.0	4805.0	4805.0	4805.0	4805.0
2.5°	4500.4	4516.3	4506.8	4567.1	4570.2	4646.4	4689.2	4725.7	4728.9	4776.5	4808.2
5°	4192.7	4202.2	4202.2	4259.3	4297.4	4398.9	4497.3	4602.0	4609.9	4724.1	4811.4
7.5°	3943.6	3953.1	3946.8	4022.9	4072.1	4184.7	4310.1	4470.3	4486.2	4670.2	4822.5
10°	3748.5	3745.3	3761.2	3831.0	3894.4	4029.3	4168.9	4351.3	4375.1	4608.3	4835.1
12.5°	3615.3	3618.4	3627.9	3700.9	3769.1	3902.4	4046.7	4245.0	4270.4	4536.9	4828.8
15°	3551.8	3545.5	3553.4	3620.0	3685.1	3802.4	3951.6	4156.2	4181.6	4473.5	4830.4
17.5°	3537.5	3532.8	3531.2	3578.8	3627.9	3737.4	3880.2	4088.0	4115.0	4432.2	4839.9
20°	3581.9	3575.6	3558.1	3578.8	3599.4	3691.4	3829.4	4038.8	4068.9	4405.2	4858.9
22.5°	3704.1	3693.0	3666.0	3640.6	3613.7	3669.2	3797.7	4002.3	4032.5	4387.8	4878.0
25°	3889.7	3880.2	3851.6	3794.5	3696.2	3686.6	3791.3	3986.5	4016.6	4375.1	4885.9
27.5°	4145.1	4130.8	4102.3	4019.8	3859.6	3751.7	3815.1	3984.9	4013.4	4360.8	4878.0
30°	4448.1	4438.6	4422.7	4322.8	4108.6	3889.7	3869.1	3997.6	4019.8	4352.9	4862.1
32.5°	4755.8	4746.3	4759.0	4711.4	4448.1	4118.1	3986.5	4032.5	4048.3	4351.3	4847.8
35°	5027.1	5038.2	5130.2	5138.1	4879.6	4427.5	4172.1	4113.4	4116.5	4383.0	4854.2
37.5°	5311.0	5353.9	5474.4	5577.6	5361.8	4836.7	4448.1	4265.7	4262.5	4463.9	4893.8
40°	5687.0	5706.0	5859.9	6053.5	5918.6	5398.3	4839.9	4514.7	4492.5	4628.9	5000.1
42.5°	6053.5	6099.5	6345.3	6567.4	6523.0	6031.2	5333.3	4887.5	4847.8	4920.8	5219.0
45°	6519.8	6564.2	6840.3	7125.8	7206.7	6746.7	5964.6	5417.3	5377.7	5360.2	5620.4
47.5°	6986.2	7032.2	7279.7	7692.1	7976.1	7641.4	6786.3	6116.9	6051.9	5983.7	6226.4
50°	7300.3	7354.2	7590.6	8085.5	8751.8	8758.1	7760.3	7033.8	6951.3	6843.4	7079.8
52.5°	7289.2	7324.1	7549.4	8120.4	9310.2	10041.5	9064.3	8201.3	8134.7	7899.9	8106.2
55°	6716.5	6768.9	6995.7	7709.6	9370.5	11258.2	10980.6	9578.3	9459.3	9038.9	9265.8
57.5°	5566.4	5610.9	5839.3	6719.7	8835.9	11881.6	13414.0	11332.8	11169.4	10279.4	10541.2
60°	4202.2	4148.3	4256.1	5027.1	7557.3	11897.5	15561.9	13712.3	13439.4	11605.6	11824.5
62.5°	3153.6	3099.7	3123.5	3340.8	5123.9	10936.2	16786.6	16967.4	16516.9	13103.1	13060.3
65°	2492.1	2462.0	2530.2	2679.3	2987.1	8328.3	16796.1	20487.5	20203.5	14838.6	14327.8
67.5°	2030.5	2011.5	2081.3	2357.3	2422.3	4475.0	15060.7	22130.9	22242.0	16739.0	15503.2
70°	1635.5	1607.0	1716.4	2079.7	2252.6	2707.9	10788.7	21293.4	21472.6	17871.6	15171.7
72.5°	1129.5	1131.1	1186.6	1684.7	2174.9	2338.3	6102.6	17730.5	18119.1	16845.3	13337.9
75°	761.4	767.8	783.6	1112.0	2003.5	2268.5	3252.0	13423.6	13698.0	13923.3	11025.0
77.5°	460.0	463.2	499.7	672.6	1381.7	2117.8	2203.4	9730.6	9946.3	9178.5	6833.9
80°	266.5	277.6	310.9	450.5	932.8	1591.1	1705.3	5966.2	6210.5	4080.1	2171.7
82.5°	117.4	125.3	169.7	261.7	544.1	1353.1	1330.9	2357.3	2322.4	1137.4	753.5
85°	20.6	25.4	36.5	82.5	199.9	713.9	1032.7	1040.6	978.8	431.5	312.5
87.5°	0.0	0.0	0.0	0.0	0.0	4.8	155.5	279.2	277.6	122.1	107.9
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°	4805.0	4805.0	4805.0	4805.0	4805.0	4805.0	4805.0	4805.0	4805.0	4805.0	4805.0
2.5°	4828.8	4786.0	4824.0	4828.8	4820.9	4814.5	4766.9	4725.7	4720.9	4676.5	4676.5
5°	4846.3	4806.6	4825.6	4789.1	4732.0	4673.3	4571.8	4502.0	4470.3	4413.2	4413.2
7.5°	4870.0	4828.8	4806.6	4716.2	4582.9	4454.4	4291.0	4154.6	4099.1	4018.2	4015.0
10°	4892.3	4839.9	4763.8	4587.7	4375.1	4170.5	3932.5	3739.0	3607.3	3510.6	3510.6
12.5°	4890.7	4822.5	4671.8	4411.6	4118.1	3821.5	3504.2	3212.3	3037.8	2887.1	2877.6
15°	4887.5	4793.9	4554.4	4207.0	3818.3	3407.4	2976.0	2595.2	2336.7	2189.1	2176.5
17.5°	4884.3	4757.4	4422.7	3973.8	3453.4	2893.5	2324.0	1911.5	1695.8	1605.4	1608.5
20°	4884.3	4716.2	4281.5	3705.7	3033.1	2278.0	1705.3	1405.5	1351.6	1356.3	1361.1
22.5°	4870.0	4665.4	4124.5	3413.8	2565.1	1675.2	1258.0	1156.4	1185.0	1229.4	1235.8
25°	4836.7	4581.3	3942.0	3090.2	2008.3	1219.9	1026.4	1007.3	1059.7	1115.2	1131.1
27.5°	4784.4	4484.6	3737.4	2711.0	1478.5	980.4	902.6	901.0	942.3	983.5	997.8
30°	4728.9	4376.7	3521.7	2289.1	1070.8	853.4	823.3	823.3	843.9	869.3	866.1
32.5°	4663.8	4267.2	3290.1	1849.7	872.5	782.1	772.5	767.8	771.0	780.5	780.5
35°	4608.3	4170.5	3052.1	1384.9	782.1	742.4	732.9	721.8	717.0	710.7	713.9
37.5°	4587.7	4094.3	2806.2	1043.8	737.6	713.9	698.0	682.1	671.0	667.8	666.3
40°	4621.0	4062.6	2560.3	859.8	705.9	683.7	666.3	645.6	636.1	636.1	636.1
42.5°	4751.1	4086.4	2309.7	777.3	683.7	658.3	632.9	613.9	610.7	613.9	615.5
45°	4989.0	4178.4	2049.5	736.1	664.7	632.9	602.8	588.5	588.5	591.7	591.7
47.5°	5414.2	4419.5	1792.6	710.7	645.6	612.3	580.6	566.3	564.7	567.9	567.9
50°	6150.2	4854.2	1561.0	693.2	631.4	596.5	564.7	545.7	540.9	539.4	539.4
52.5°	7078.2	5607.7	1413.4	680.5	613.9	579.0	547.3	521.9	512.4	507.6	507.6
55°	8199.8	6611.8	1413.4	671.0	591.7	558.4	521.9	496.5	482.2	475.9	475.9
57.5°	9470.4	7781.0	1657.7	663.1	574.3	534.6	494.9	469.6	453.7	444.2	444.2
60°	10763.3	9016.7	2262.1	652.0	558.4	504.5	464.8	441.0	420.4	409.3	407.7
62.5°	12103.7	10377.8	3058.5	658.3	547.3	475.9	433.1	406.1	388.7	377.5	376.0
65°	13331.6	11673.8	3754.9	707.5	548.9	450.5	396.6	372.8	358.5	344.2	342.6
67.5°	14373.8	12389.3	3266.3	807.4	582.2	420.4	360.1	336.3	323.6	314.1	312.5
70°	13644.1	11297.9	1852.8	869.3	628.2	388.7	318.9	303.0	290.3	284.0	282.4
72.5°	11667.5	9565.6	1238.9	767.8	572.7	347.4	280.8	268.1	258.6	250.6	249.1
75°	9451.4	7585.8	947.0	629.8	445.8	282.4	241.1	231.6	222.1	214.2	212.6
77.5°	5591.8	4383.0	698.0	498.1	314.1	220.5	199.9	191.9	182.4	176.1	174.5
80°	1784.6	1522.9	442.6	342.6	207.8	169.7	153.9	147.5	138.0	130.1	128.5
82.5°	680.5	588.5	234.8	174.5	138.0	115.8	103.1	96.8	90.4	82.5	80.9
85°	301.4	282.4	130.1	93.6	74.6	57.1	50.8	47.6	39.7	33.3	31.7
87.5°	106.3	106.3	55.5	27.0	15.9	7.9	4.8	1.6	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)