

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: P642492

Luminaire Tested: GWS-SA6D-722-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642492
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-722-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20789.9 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

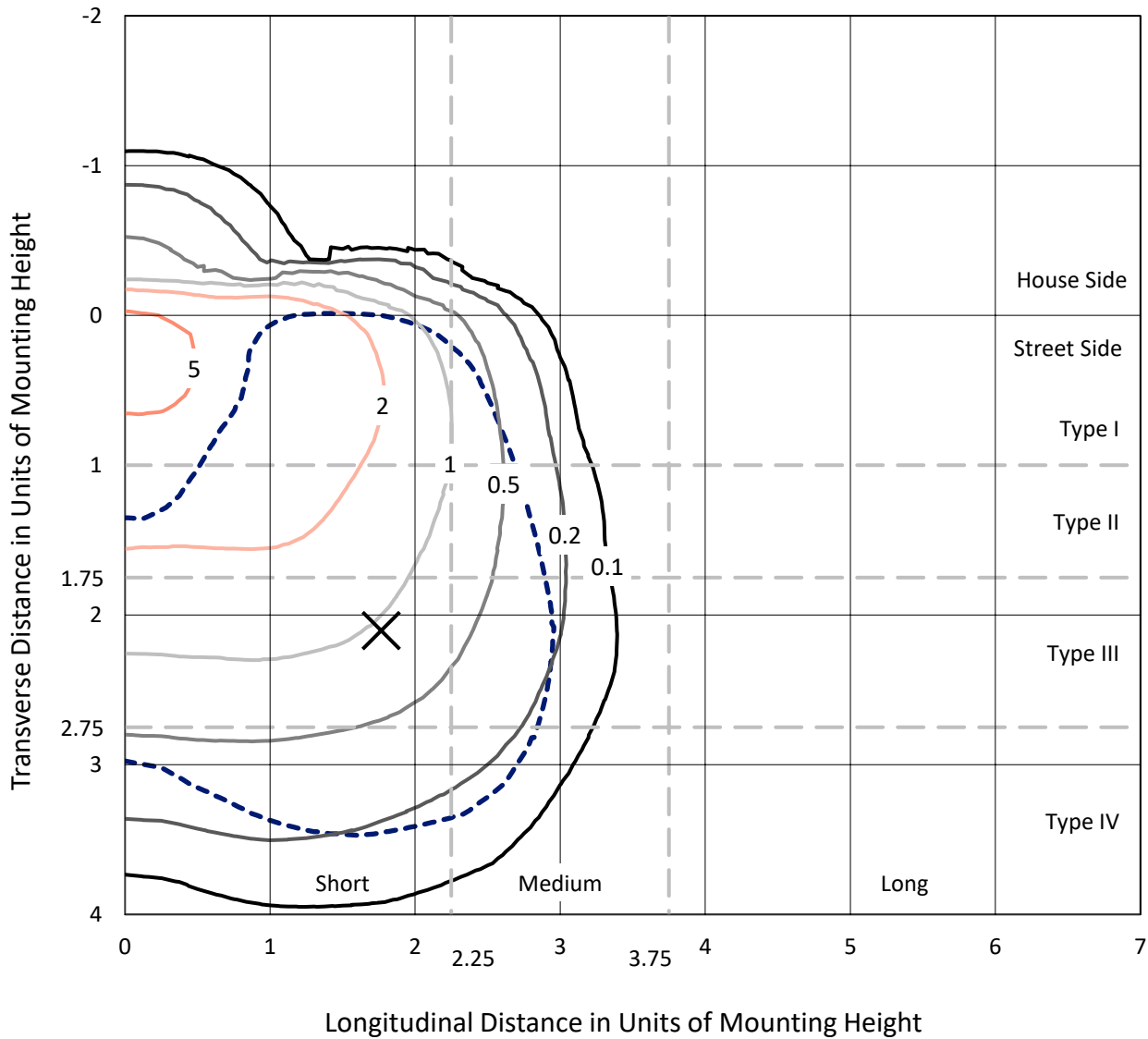
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

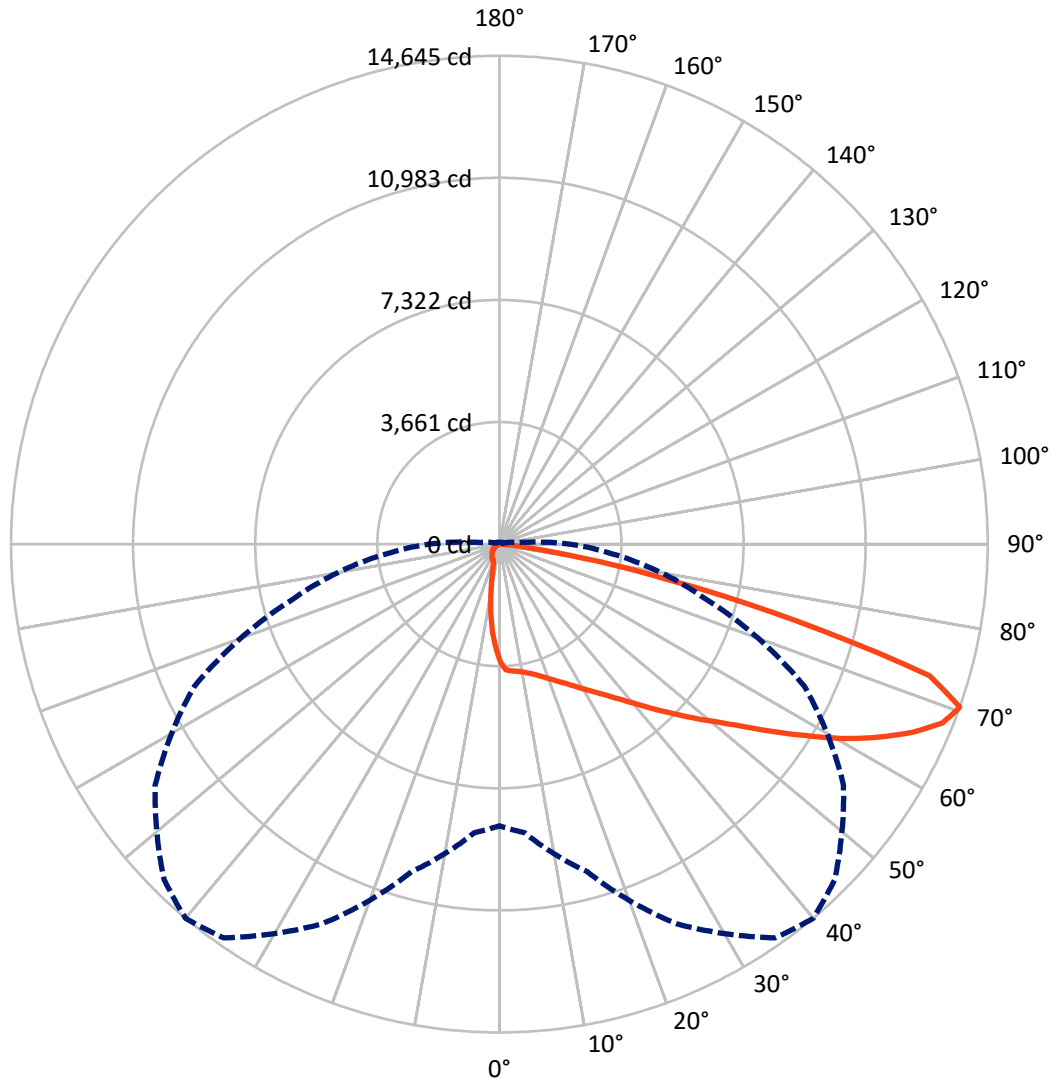
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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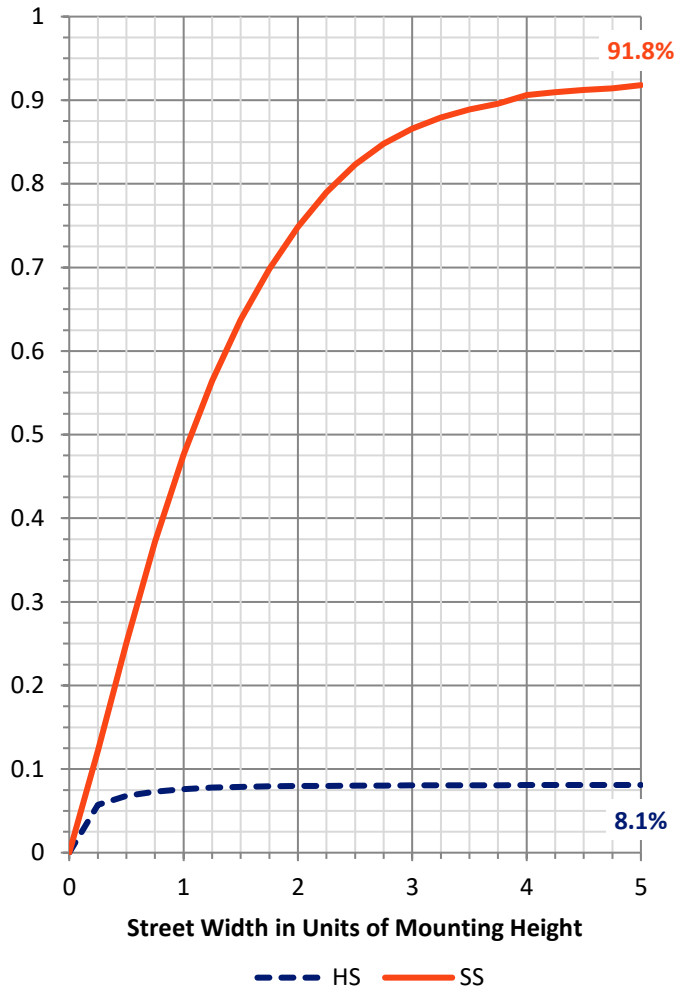
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1700.1	0.0	1700.1
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	19089.8	0.0	19089.8
	% Fixture	91.8	0.0	91.8
Total	Lumens	20789.9	0.0	20789.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.2	1.4
10°-20°	756.2	3.6
20°-30°	1265.7	6.1
30°-40°	1987.9	9.6
40°-50°	3144.4	15.1
50°-60°	4586.9	22.1
60°-70°	5686.1	27.4
70°-80°	2876.8	13.8
80°-90°	187.8	0.9
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°	20789.9	100.0
0°-180°	20789.9	100.0

Coefficient of Utilization

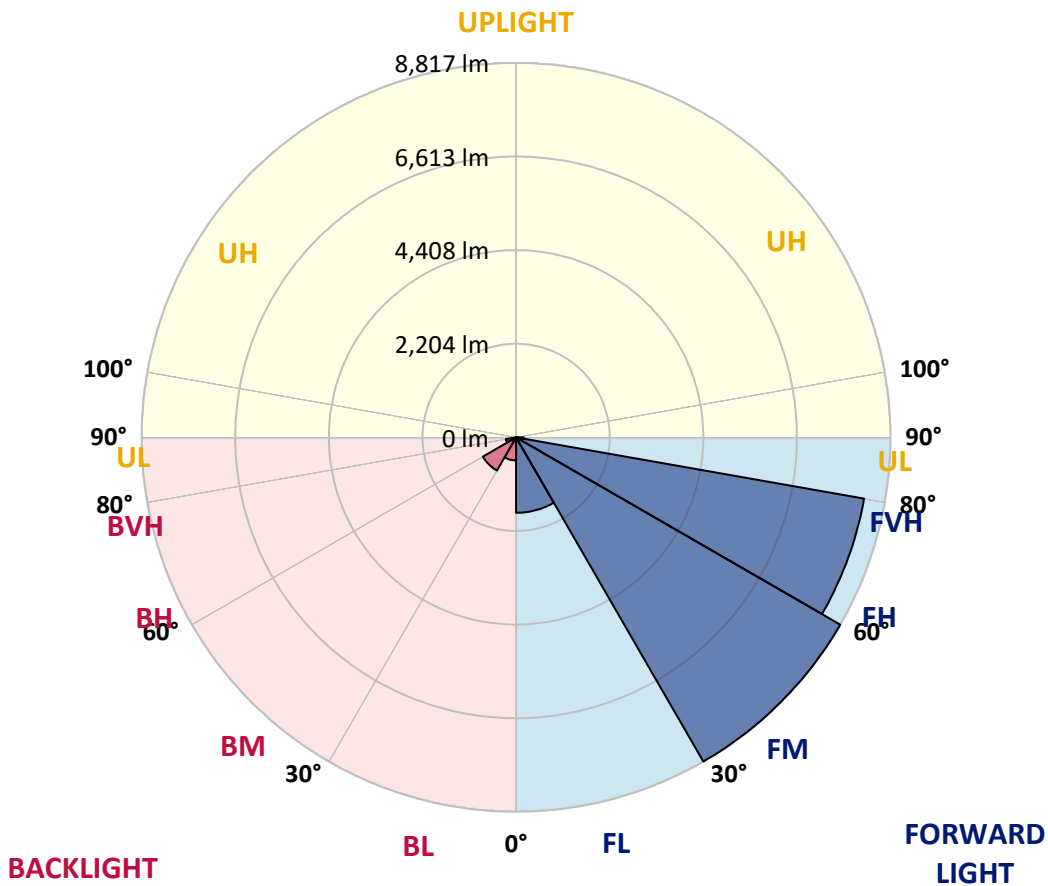


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1777.2	8.5			
FM (30°-60°)	8816.8	42.4			
FH (60°-80°)	8320.5	40.0			G4/12000
FVH (80°-90°)	175.4	0.8			G2/225
BL (0°-30°)	542.9	2.6	B2/1000		
BM (30°-60°)	902.4	4.3	B1/1000		
BH (60°-80°)	242.4	1.2	B1/500		G1/500
BVH (80°-90°)	12.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3527.8	3527.8	3527.8	3527.8	3527.8	3527.8	3527.8	3527.8	3527.8	3527.8	3527.8
2.5°	3792.6	3805.9	3804.0	3809.6	3796.4	3775.6	3771.8	3743.4	3692.4	3628.1	3556.2
5°	3870.2	3885.3	3874.0	3868.3	3843.7	3821.0	3815.3	3785.1	3726.4	3639.4	3514.6
7.5°	3936.4	3940.2	3932.6	3919.4	3883.4	3853.1	3832.3	3790.7	3720.7	3633.7	3490.0
10°	3947.7	3945.8	3949.6	3951.5	3928.8	3902.3	3885.3	3828.6	3739.7	3647.0	3491.9
12.5°	3934.5	3934.5	3959.1	3987.5	3987.5	3974.2	3957.2	3906.1	3802.1	3692.4	3529.7
15°	3951.5	3957.2	4004.5	4057.4	4074.5	4061.2	4053.7	4000.7	3892.9	3771.8	3597.8
17.5°	4012.0	4017.7	4093.4	4172.8	4193.6	4178.5	4163.4	4110.4	3995.0	3862.6	3675.3
20°	4100.9	4116.1	4212.5	4314.7	4333.6	4314.7	4284.4	4210.7	4095.3	3961.0	3749.1
22.5°	4263.6	4273.1	4377.1	4484.9	4494.4	4464.1	4418.7	4316.6	4195.5	4065.0	3832.3
25°	4479.3	4492.5	4596.5	4700.6	4676.0	4630.6	4568.2	4452.8	4314.7	4188.0	3938.3
27.5°	4736.5	4751.6	4853.8	4944.6	4880.3	4827.3	4757.3	4613.6	4473.6	4358.2	4074.5
30°	5014.6	5027.8	5118.6	5200.0	5114.8	5052.4	4969.2	4821.6	4679.8	4592.8	4267.4
32.5°	5283.2	5281.3	5368.3	5434.5	5347.5	5298.3	5222.7	5073.2	4959.7	4921.9	4554.9
35°	5532.9	5532.9	5604.8	5671.0	5608.5	5582.1	5512.1	5392.9	5328.6	5374.0	4938.9
37.5°	5784.5	5771.2	5839.3	5913.1	5907.4	5909.3	5869.6	5812.8	5816.6	5977.4	5466.7
40°	5992.5	5986.9	6066.3	6162.8	6238.4	6299.0	6274.4	6295.2	6414.3	6715.1	6142.0
42.5°	6159.0	6172.2	6274.4	6427.6	6618.6	6741.6	6758.6	6843.7	7150.2	7615.5	6904.3
45°	6350.0	6351.9	6493.8	6728.4	7032.9	7227.7	7295.8	7515.2	7950.3	8549.9	7740.3
47.5°	6584.6	6561.9	6720.8	7049.9	7490.7	7778.2	7899.2	8173.5	8846.9	9461.7	8421.3
50°	6843.7	6802.1	6981.8	7430.1	8003.3	8362.7	8608.6	9009.6	9736.0	10210.7	8928.3
52.5°	7144.5	7104.8	7309.1	7867.1	8618.0	9055.0	9370.9	9775.7	10498.3	10782.0	9230.9
55°	7526.6	7486.9	7702.5	8391.0	9344.4	9911.9	10242.9	10583.4	11207.6	11203.8	9450.3
57.5°	7950.3	7895.5	8194.3	9053.1	10250.5	10840.6	11177.3	11343.8	11746.7	11531.1	9597.9
60°	8436.4	8387.3	8801.5	9841.9	11296.5	11843.2	12055.0	11986.9	12189.3	11724.0	9546.8
62.5°	8875.3	8852.6	9367.1	10678.0	12293.4	12754.9	12813.6	12516.6	12514.7	11727.8	9202.5
65°	9331.2	9374.7	10138.9	11640.8	13295.9	13606.1	13505.9	13042.4	12645.2	11264.4	8184.9
67.5°	9501.4	9628.1	10647.7	12510.9	14086.6	14328.7	14152.8	13305.4	12102.3	9705.7	6232.8
70°	8449.7	8688.0	10167.2	12560.1	14413.8	14644.6	14222.8	12597.9	10089.7	6429.5	3414.3
72.5°	6425.7	6703.8	8472.4	10284.5	12963.0	13488.9	12768.2	10263.7	6503.3	2816.6	1146.3
75°	3595.9	3896.7	6310.3	7744.1	8703.2	9183.6	8918.8	6584.6	2880.9	735.8	342.4
77.5°	1216.3	1316.5	2935.7	4791.4	5744.7	5313.4	4498.2	3270.5	1059.3	280.0	181.6
80°	720.7	758.5	1093.3	2385.3	3022.7	2506.3	1978.6	1208.7	539.1	149.4	126.7
82.5°	215.6	255.4	603.4	885.3	1184.1	737.7	624.2	690.4	280.0	81.3	105.9
85°	0.0	0.0	128.6	274.3	310.2	121.1	121.1	391.6	51.1	34.0	77.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.9	9.5	5.7	7.6	17.0
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°	3527.8	3527.8	3527.8	3527.8	3527.8	3527.8	3527.8	3527.8	3527.8	3527.8	3527.8
2.5°	3505.1	3438.9	3361.3	3287.6	3217.6	3126.8	3083.3	3030.3	2984.9	2960.3	2973.6
5°	3435.1	3331.1	3172.2	3011.4	2848.7	2695.5	2557.4	2464.7	2381.5	2338.0	2347.5
7.5°	3374.6	3234.6	2986.8	2723.9	2462.8	2199.9	1986.2	1819.7	1691.1	1638.1	1628.7
10°	3348.1	3172.2	2822.2	2443.9	2042.9	1689.2	1386.5	1203.0	1072.5	1008.2	1019.6
12.5°	3361.3	3140.0	2682.3	2169.6	1649.5	1237.1	947.7	775.5	682.9	645.0	635.6
15°	3399.2	3132.5	2557.4	1889.7	1273.0	864.5	654.5	584.5	565.6	561.8	561.8
17.5°	3442.7	3134.3	2428.8	1606.0	966.6	641.2	559.9	546.7	541.0	537.2	539.1
20°	3486.2	3134.3	2281.2	1318.4	726.4	554.2	533.4	524.0	518.3	516.4	516.4
22.5°	3539.1	3134.3	2116.7	1051.7	582.6	525.9	508.8	503.2	497.5	495.6	493.7
25°	3603.5	3136.2	1935.1	822.8	529.6	501.3	488.0	482.4	476.7	472.9	472.9
27.5°	3696.1	3151.4	1734.6	641.2	499.4	478.6	467.2	461.5	455.9	450.2	450.2
30°	3830.4	3189.2	1509.5	529.6	471.0	454.0	442.6	438.8	433.2	427.5	425.6
32.5°	4031.0	3255.4	1276.8	474.8	444.5	427.5	414.3	410.5	404.8	399.1	397.2
35°	4310.9	3376.5	1049.8	440.7	410.5	393.4	385.9	384.0	376.4	370.7	370.7
37.5°	4721.4	3573.2	832.3	406.7	382.1	368.9	359.4	355.6	348.1	342.4	340.5
40°	5222.7	3828.6	646.9	380.2	355.6	342.4	332.9	327.2	317.8	310.2	306.4
42.5°	5862.0	4140.7	510.7	351.8	331.0	317.8	310.2	298.9	285.6	274.3	272.4
45°	6527.8	4462.2	421.8	325.4	308.3	297.0	287.5	272.4	253.5	240.2	236.4
47.5°	7038.6	4662.7	368.9	297.0	283.7	274.3	262.9	244.0	221.3	206.2	202.4
50°	7403.6	4693.0	329.1	270.5	262.9	253.5	236.4	213.7	189.2	174.0	170.2
52.5°	7583.3	4556.8	297.0	245.9	240.2	230.8	210.0	185.4	158.9	143.8	140.0
55°	7664.7	4299.6	266.7	225.1	217.5	206.2	183.5	157.0	130.5	117.3	113.5
57.5°	7632.5	3919.4	240.2	204.3	194.8	181.6	157.0	128.6	107.8	94.6	92.7
60°	7394.2	3385.9	213.7	183.5	172.1	157.0	132.4	105.9	87.0	77.6	75.7
62.5°	6879.7	2723.9	187.3	158.9	151.3	136.2	113.5	87.0	71.9	66.2	64.3
65°	5826.1	1925.6	160.8	134.3	130.5	115.4	94.6	71.9	62.4	58.6	56.7
67.5°	4188.0	1170.9	136.2	115.4	111.6	98.4	79.4	62.4	56.7	54.9	54.9
70°	2105.3	554.2	107.8	94.6	94.6	81.3	68.1	56.7	54.9	53.0	53.0
72.5°	715.0	236.4	81.3	73.8	77.6	70.0	58.6	53.0	53.0	53.0	53.0
75°	244.0	124.8	56.7	53.0	56.7	56.7	51.1	51.1	53.0	53.0	53.0
77.5°	158.9	83.2	39.7	35.9	43.5	43.5	43.5	47.3	51.1	51.1	51.1
80°	130.5	45.4	26.5	24.6	32.2	32.2	35.9	43.5	47.3	47.3	47.3
82.5°	111.6	28.4	15.1	17.0	22.7	24.6	30.3	35.9	41.6	43.5	43.5
85°	75.7	15.1	11.3	13.2	15.1	18.9	24.6	30.3	34.0	37.8	37.8
87.5°	20.8	5.7	7.6	9.5	9.5	13.2	18.9	22.7	26.5	28.4	28.4
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)