

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: P641007

Luminaire Tested: GWS-SA5F-722-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641007
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-SA5F-722-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24223.8 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

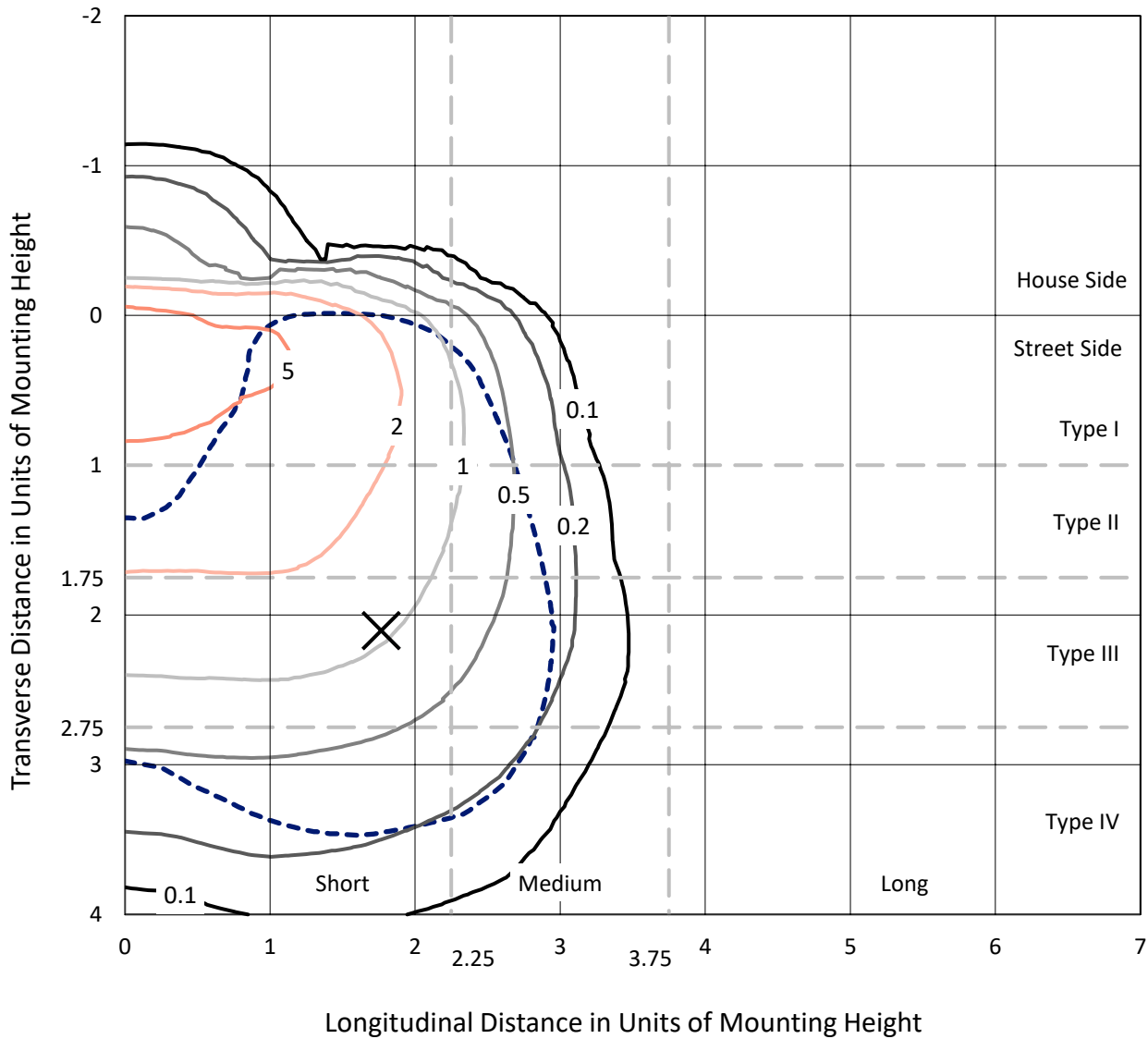
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

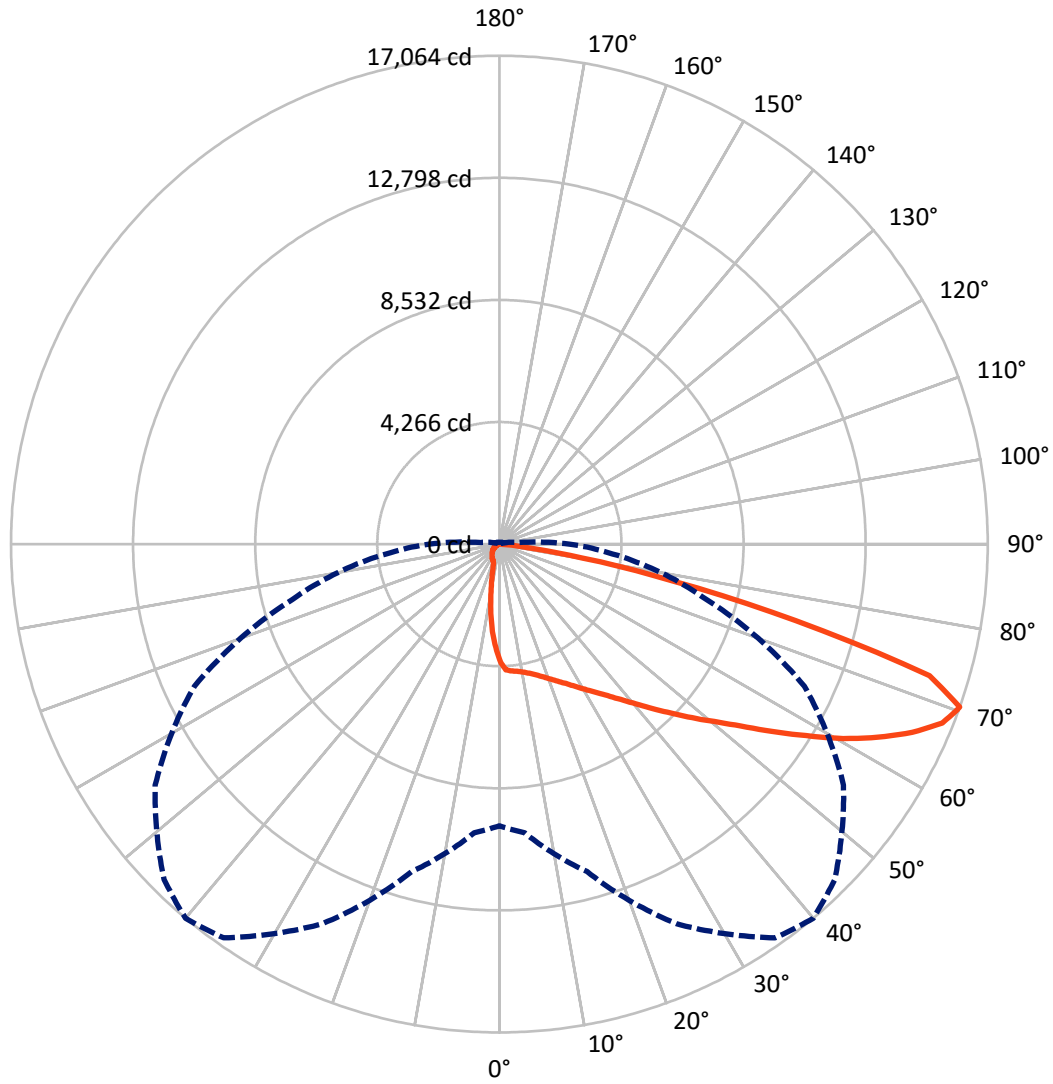
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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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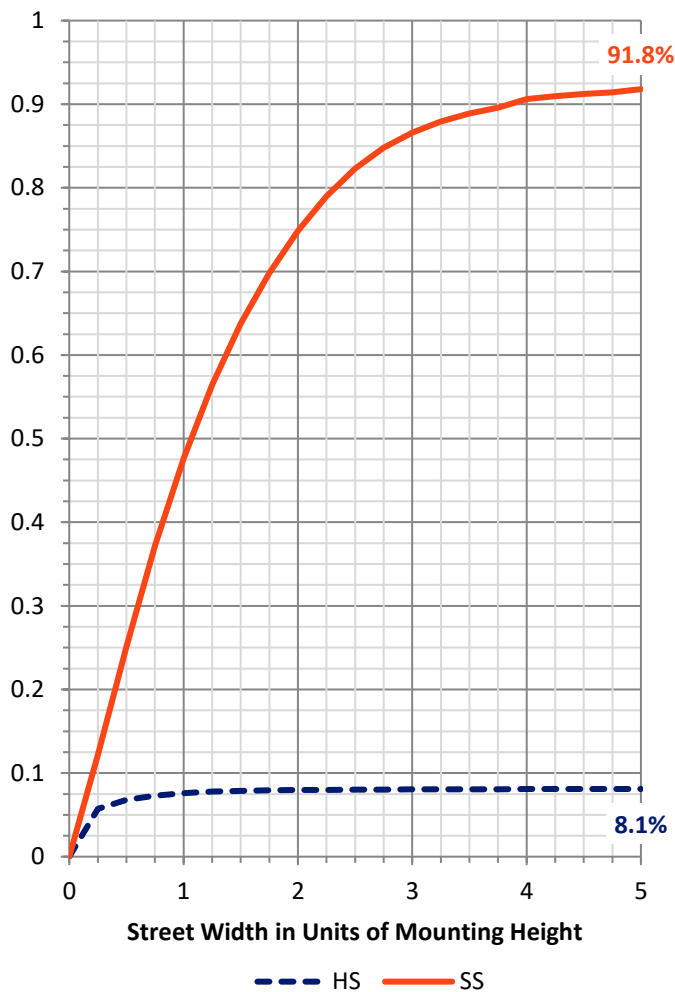
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1980.9	0.0	1980.9
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	22242.9	0.0	22242.9
	% Fixture	91.8	0.0	91.8
Total	Lumens	24223.8	0.0	24223.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.4	1.4
10°-20°	881.1	3.6
20°-30°	1474.7	6.1
30°-40°	2316.2	9.6
40°-50°	3663.8	15.1
50°-60°	5344.5	22.1
60°-70°	6625.2	27.4
70°-80°	3352.0	13.8
80°-90°	218.8	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°	24223.8	100.0
0°-180°	24223.8	100.0

Coefficient of Utilization



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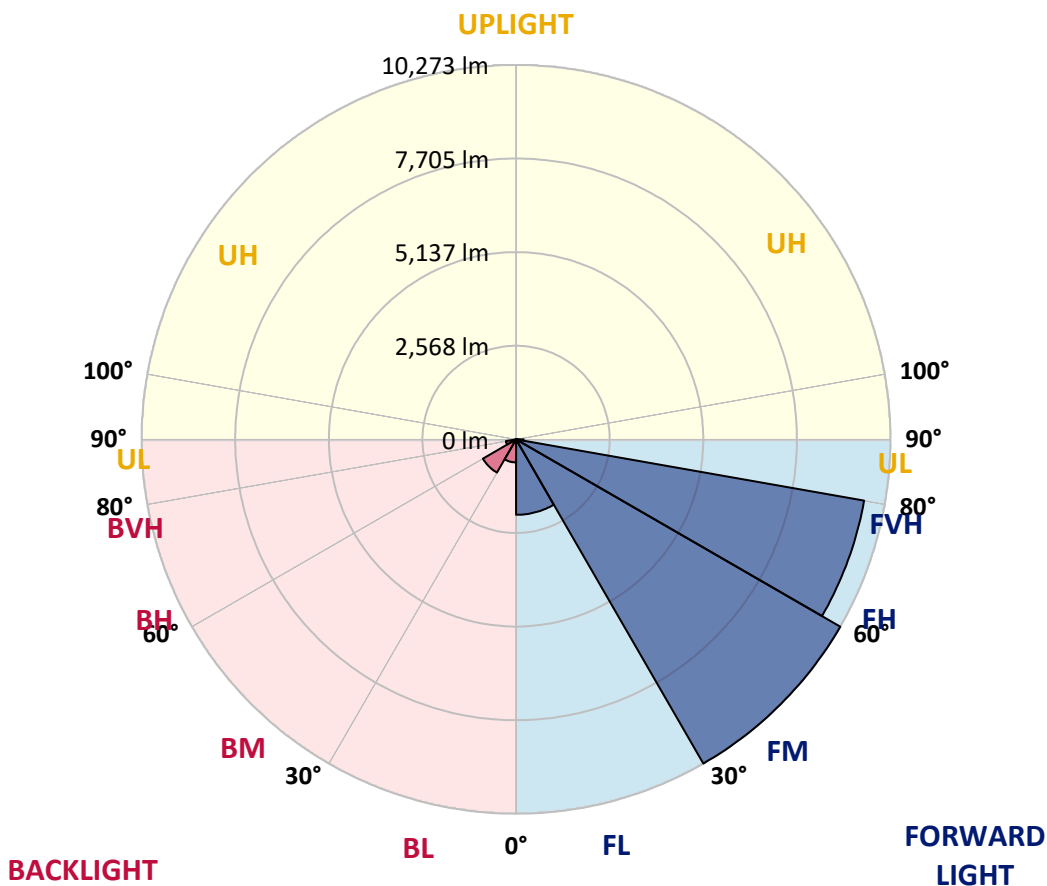
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2070.7	8.5			
FM (30°-60°)	10273.0	42.4			
FH (60°-80°)	9694.8	40.0			G4/12000
FVH (80°-90°)	204.4	0.8			G2/225
BL (0°-30°)	632.6	2.6	B2/1000		
BM (30°-60°)	1051.4	4.3	B2/2500		
BH (60°-80°)	282.4	1.2	B1/500		G1/500
BVH (80°-90°)	14.4	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°	4110.5	4110.5	4110.5	4110.5	4110.5	4110.5	4110.5	4110.5	4110.5	4110.5	4110.5
2.5°	4419.1	4434.5	4432.3	4438.9	4423.5	4399.2	4394.8	4361.7	4302.2	4227.3	4143.5
5°	4509.4	4527.0	4513.8	4507.2	4478.6	4452.1	4445.5	4410.2	4341.9	4240.5	4095.1
7.5°	4586.6	4591.0	4582.1	4566.7	4524.8	4489.6	4465.3	4416.8	4335.3	4233.9	4066.4
10°	4599.8	4597.6	4602.0	4604.2	4577.7	4546.9	4527.0	4460.9	4357.3	4249.3	4068.6
12.5°	4584.4	4584.4	4613.0	4646.1	4646.1	4630.6	4610.8	4551.3	4430.1	4302.2	4112.7
15°	4604.2	4610.8	4665.9	4727.6	4747.4	4732.0	4723.2	4661.5	4535.9	4394.8	4192.0
17.5°	4674.7	4681.3	4769.5	4862.1	4886.3	4868.7	4851.0	4789.3	4654.9	4500.6	4282.4
20°	4778.3	4795.9	4908.3	5027.4	5049.4	5027.4	4992.1	4906.1	4771.7	4615.2	4368.4
22.5°	4967.9	4978.9	5100.1	5225.7	5236.7	5201.5	5148.6	5029.6	4888.5	4736.4	4465.3
25°	5219.1	5234.5	5355.8	5477.0	5448.3	5395.4	5322.7	5188.3	5027.4	4879.7	4588.8
27.5°	5518.9	5536.5	5655.5	5761.3	5686.4	5624.6	5543.1	5375.6	5212.5	5078.1	4747.4
30°	5842.8	5858.3	5964.1	6058.8	5959.7	5886.9	5789.9	5618.0	5452.7	5351.3	4972.3
32.5°	6155.8	6153.6	6255.0	6332.1	6230.8	6173.4	6085.3	5911.2	5778.9	5734.8	5307.3
35°	6446.7	6446.7	6530.5	6607.6	6534.9	6504.0	6422.5	6283.6	6208.7	6261.6	5754.7
37.5°	6739.9	6724.5	6803.8	6889.8	6883.1	6885.3	6839.1	6772.9	6777.3	6964.7	6369.6
40°	6982.3	6975.7	7068.3	7180.7	7268.8	7339.4	7310.7	7335.0	7473.8	7824.3	7156.4
42.5°	7176.3	7191.7	7310.7	7489.2	7711.8	7855.1	7874.9	7974.1	8331.2	8873.4	8044.7
45°	7398.9	7401.1	7566.4	7839.7	8194.5	8421.5	8500.9	8756.6	9263.5	9962.1	9018.8
47.5°	7672.2	7645.7	7830.9	8214.4	8727.9	9062.9	9204.0	9523.5	10308.2	11024.5	9812.3
50°	7974.1	7925.6	8135.0	8657.4	9325.2	9744.0	10030.5	10497.7	11344.1	11897.3	10403.0
52.5°	8324.6	8278.3	8516.3	9166.5	10041.5	10550.6	10918.7	11390.4	12232.3	12562.9	10755.6
55°	8769.8	8723.5	8974.8	9777.0	10887.8	11549.0	11934.7	12331.5	13058.8	13054.4	11011.3
57.5°	9263.5	9199.6	9547.8	10548.4	11943.6	12631.2	13023.5	13217.5	13686.9	13435.7	11183.2
60°	9829.9	9772.6	10255.3	11467.5	13162.4	13799.3	14046.2	13966.8	14202.7	13660.5	11123.7
62.5°	10341.2	10314.8	10914.3	12441.7	14323.9	14861.7	14930.0	14584.0	14581.8	13664.9	10722.5
65°	10872.4	10923.1	11813.5	13563.5	15492.0	15853.5	15736.7	15196.7	14733.8	13124.9	9536.8
67.5°	11070.8	11218.4	12406.4	14577.4	16413.3	16695.4	16490.4	15503.0	14101.3	11308.8	7262.2
70°	9845.3	10123.0	11846.6	14634.7	16794.6	17063.5	16572.0	14678.7	11756.2	7491.4	3978.2
72.5°	7487.0	7811.0	9871.8	11983.2	15104.1	15716.8	14877.1	11959.0	7577.4	3281.8	1335.6
75°	4189.8	4540.3	7352.6	9023.2	10140.7	10700.5	10391.9	7672.2	3356.7	857.4	398.9
77.5°	1417.2	1534.0	3420.6	5582.8	6693.6	6191.1	5241.1	3810.7	1234.2	326.2	211.6
80°	839.7	883.8	1273.9	2779.3	3522.0	2920.3	2305.4	1408.4	628.1	174.1	147.7
82.5°	251.3	297.5	703.1	1031.5	1379.7	859.6	727.3	804.5	326.2	94.8	123.4
85°	0.0	0.0	149.9	319.6	361.5	141.1	141.1	456.2	59.5	39.7	90.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.2	11.0	6.6	8.8	19.8
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°	4110.5	4110.5	4110.5	4110.5	4110.5	4110.5	4110.5	4110.5	4110.5	4110.5	4110.5
2.5°	4084.0	4006.9	3916.5	3830.6	3749.0	3643.2	3592.5	3530.8	3477.9	3449.3	3464.7
5°	4002.5	3881.3	3696.1	3508.8	3319.2	3140.7	2979.8	2871.8	2774.9	2724.2	2735.2
7.5°	3932.0	3768.9	3480.1	3173.8	2869.6	2563.3	2314.2	2120.3	1970.4	1908.7	1897.7
10°	3901.1	3696.1	3288.4	2847.6	2380.3	1968.2	1615.5	1401.8	1249.7	1174.7	1188.0
12.5°	3916.5	3658.7	3125.3	2528.0	1921.9	1441.4	1104.2	903.6	795.6	751.6	740.5
15°	3960.6	3649.8	2979.8	2201.8	1483.3	1007.2	762.6	681.0	659.0	654.6	654.6
17.5°	4011.3	3652.1	2830.0	1871.2	1126.3	747.2	652.4	637.0	630.3	625.9	628.1
20°	4062.0	3652.1	2658.0	1536.2	846.3	645.8	621.5	610.5	603.9	601.7	601.7
22.5°	4123.7	3652.1	2466.3	1225.4	678.8	612.7	592.9	586.3	579.7	577.5	575.2
25°	4198.6	3654.3	2254.7	958.7	617.1	584.1	568.6	562.0	555.4	551.0	551.0
27.5°	4306.6	3671.9	2021.1	747.2	581.9	557.6	544.4	537.8	531.2	524.6	524.6
30°	4463.1	3716.0	1758.8	617.1	548.8	529.0	515.7	511.3	504.7	498.1	495.9
32.5°	4696.8	3793.1	1487.7	553.2	517.9	498.1	482.7	478.3	471.7	465.0	462.8
35°	5023.0	3934.2	1223.2	513.5	478.3	458.4	449.6	447.4	438.6	432.0	432.0
37.5°	5501.2	4163.4	969.8	473.9	445.2	429.8	418.8	414.4	405.5	398.9	396.7
40°	6085.3	4460.9	753.8	443.0	414.4	398.9	387.9	381.3	370.3	361.5	357.1
42.5°	6830.2	4824.6	595.1	409.9	385.7	370.3	361.5	348.2	332.8	319.6	317.4
45°	7606.1	5199.3	491.5	379.1	359.3	346.0	335.0	317.4	295.3	279.9	275.5
47.5°	8201.1	5432.9	429.8	346.0	330.6	319.6	306.4	284.3	257.9	240.2	235.8
50°	8626.5	5468.2	383.5	315.2	306.4	295.3	275.5	249.1	220.4	202.8	198.4
52.5°	8835.9	5309.5	346.0	286.5	279.9	268.9	244.6	216.0	185.1	167.5	163.1
55°	8930.7	5009.7	310.8	262.3	253.5	240.2	213.8	182.9	152.1	136.6	132.2
57.5°	8893.2	4566.7	279.9	238.0	227.0	211.6	182.9	149.9	125.6	110.2	108.0
60°	8615.5	3945.2	249.1	213.8	200.6	182.9	154.3	123.4	101.4	90.4	88.2
62.5°	8016.0	3173.8	218.2	185.1	176.3	158.7	132.2	101.4	83.8	77.1	74.9
65°	6788.4	2243.7	187.3	156.5	152.1	134.4	110.2	83.8	72.7	68.3	66.1
67.5°	4879.7	1364.3	158.7	134.4	130.0	114.6	92.6	72.7	66.1	63.9	63.9
70°	2453.1	645.8	125.6	110.2	110.2	94.8	79.3	66.1	63.9	61.7	61.7
72.5°	833.1	275.5	94.8	86.0	90.4	81.5	68.3	61.7	61.7	61.7	61.7
75°	284.3	145.5	66.1	61.7	66.1	66.1	59.5	59.5	61.7	61.7	61.7
77.5°	185.1	97.0	46.3	41.9	50.7	50.7	50.7	55.1	59.5	59.5	59.5
80°	152.1	52.9	30.9	28.7	37.5	37.5	41.9	50.7	55.1	55.1	55.1
82.5°	130.0	33.1	17.6	19.8	26.4	28.7	35.3	41.9	48.5	50.7	50.7
85°	88.2	17.6	13.2	15.4	17.6	22.0	28.7	35.3	39.7	44.1	44.1
87.5°	24.2	6.6	8.8	11.0	11.0	15.4	22.0	26.4	30.9	33.1	33.1
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)