

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: P636277

Luminaire Tested: GWS-SA3F-740-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636277
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-SA3F-740-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19264.9 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

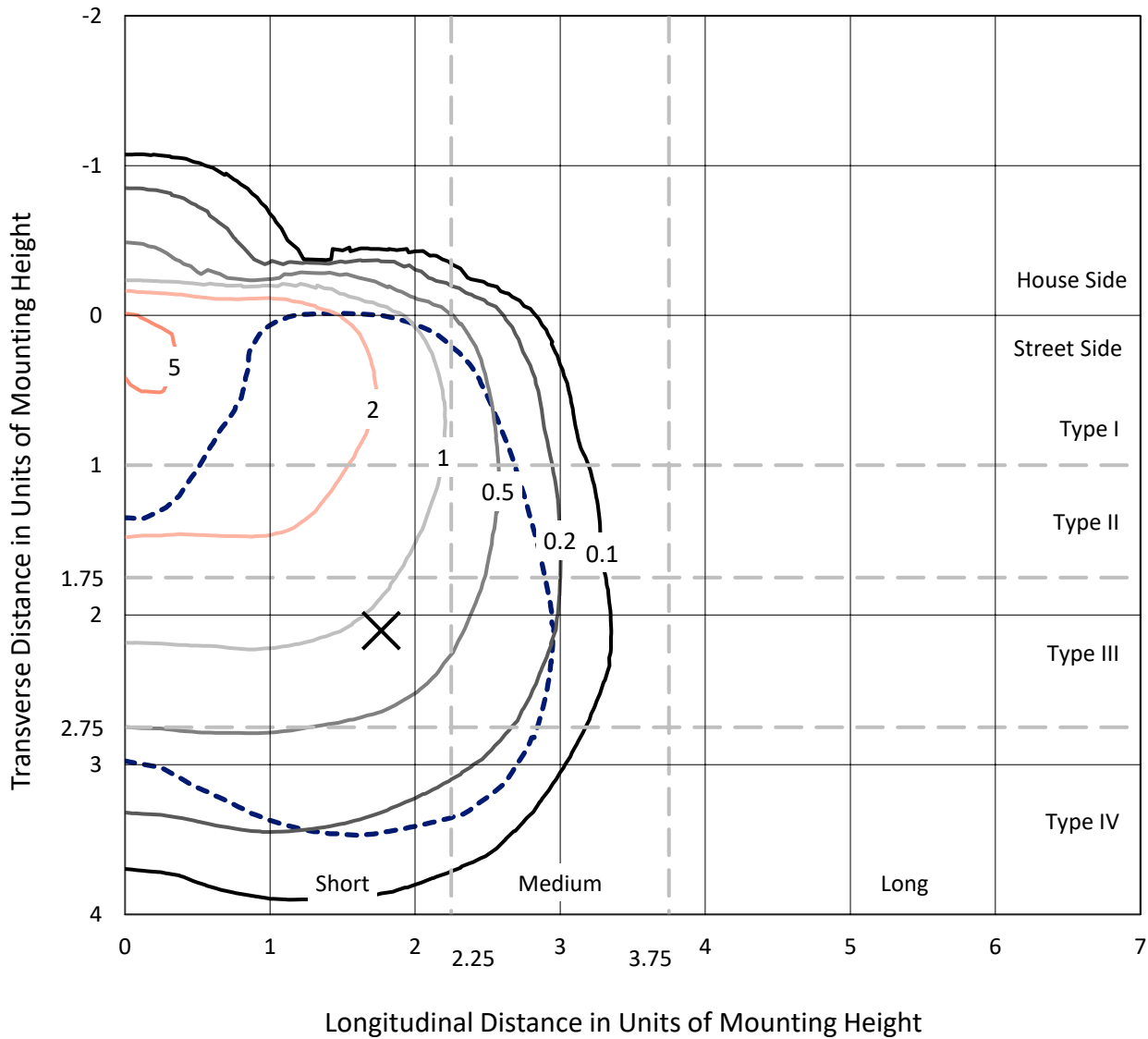
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

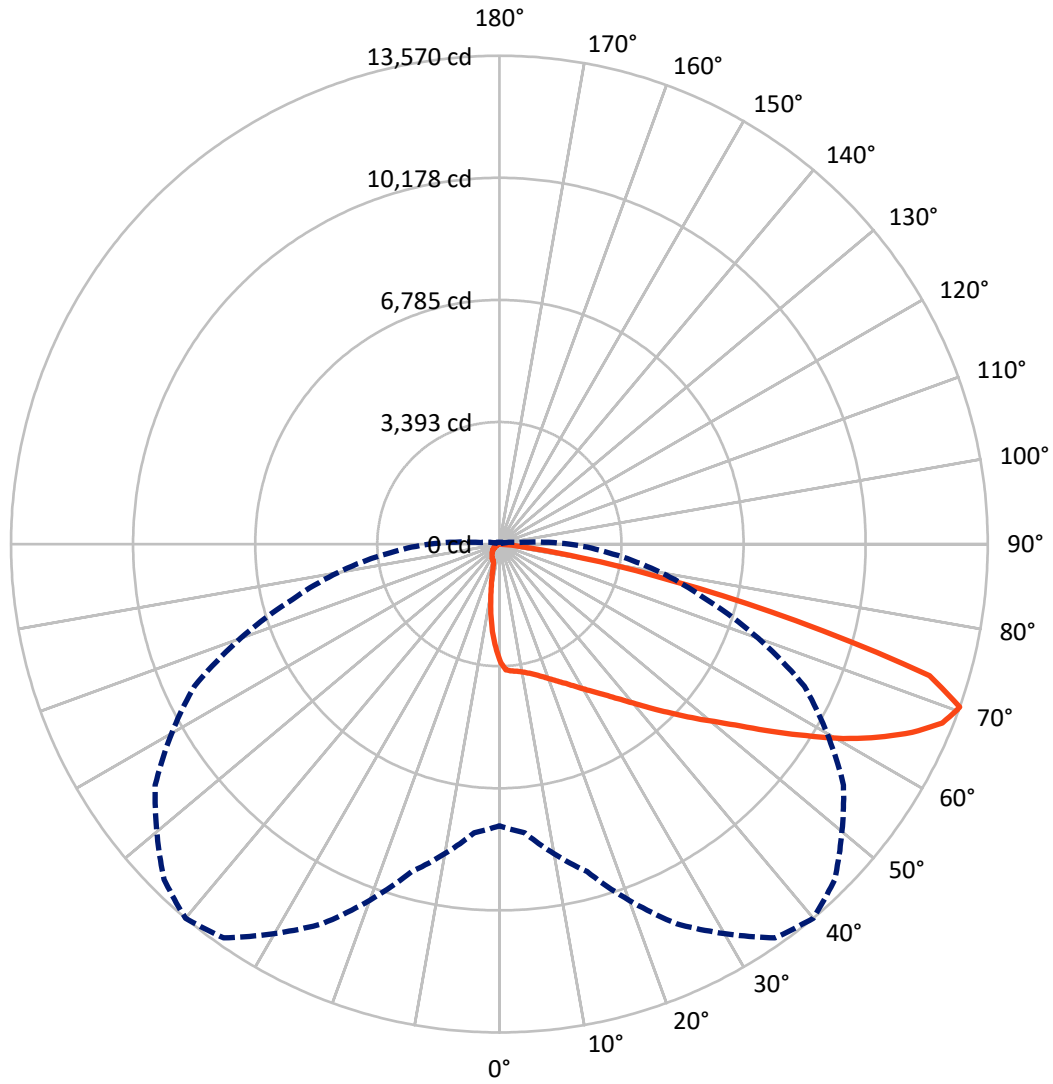
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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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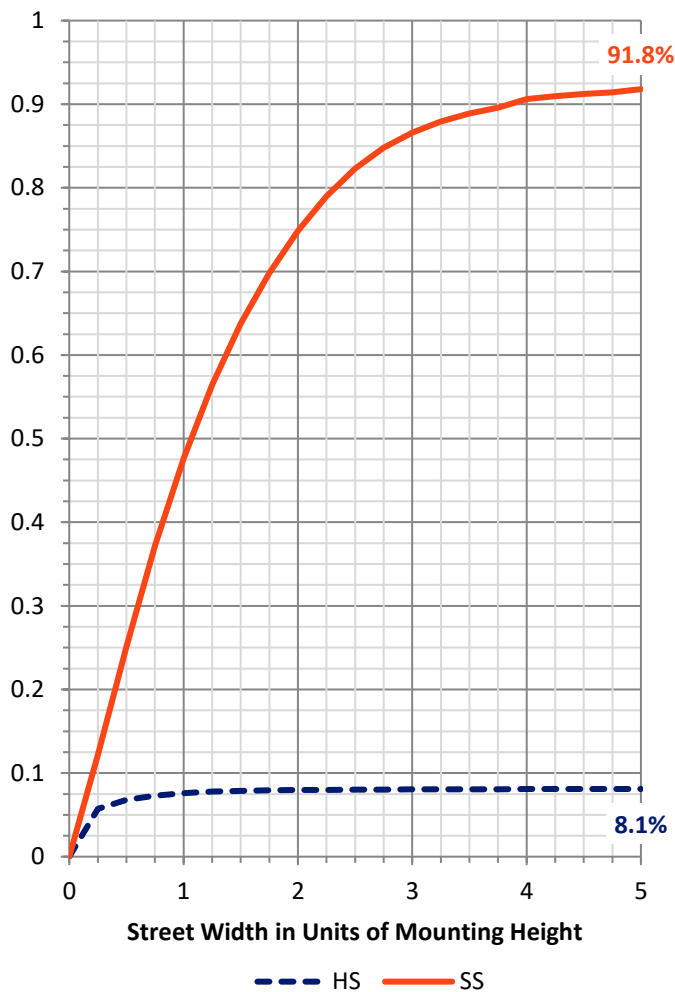
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1575.4	0.0	1575.4
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	17689.5	0.0	17689.5
	% Fixture	91.8	0.0	91.8
Total	Lumens	19264.9	0.0	19264.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.3	1.4
10°-20°	700.8	3.6
20°-30°	1172.8	6.1
30°-40°	1842.1	9.6
40°-50°	2913.7	15.1
50°-60°	4250.4	22.1
60°-70°	5269.0	27.4
70°-80°	2665.8	13.8
80°-90°	174.0	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°	19264.9	100.0
0°-180°	19264.9	100.0

Coefficient of Utilization



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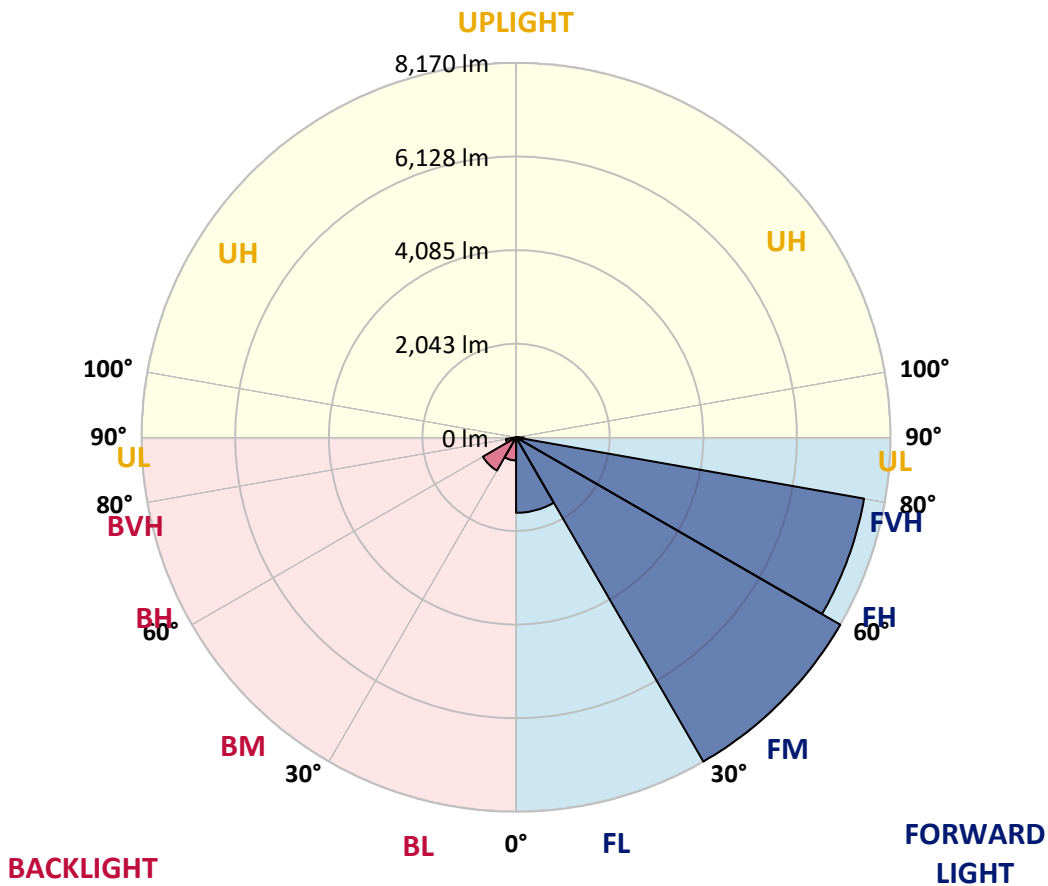
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1646.8	8.5			
FM (30°-60°)	8170.0	42.4			
FH (60°-80°)	7710.2	40.0			G4/12000
FVH (80°-90°)	162.6	0.8			G2/225
BL (0°-30°)	503.1	2.6	B2/1000		
BM (30°-60°)	836.2	4.3	B1/1000		
BH (60°-80°)	224.6	1.2	B1/500		G1/500
BVH (80°-90°)	11.5	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°	3269.0	3269.0	3269.0	3269.0	3269.0	3269.0	3269.0	3269.0	3269.0	3269.0	3269.0
2.5°	3514.4	3526.7	3524.9	3530.2	3517.9	3498.6	3495.1	3468.8	3421.5	3361.9	3295.3
5°	3586.3	3600.3	3589.8	3584.5	3561.7	3540.7	3535.5	3507.4	3453.1	3372.4	3256.8
7.5°	3647.6	3651.1	3644.1	3631.9	3598.6	3570.5	3551.2	3512.7	3447.8	3367.2	3234.0
10°	3658.2	3656.4	3659.9	3661.7	3640.6	3616.1	3600.3	3547.7	3465.3	3379.5	3235.7
12.5°	3645.9	3645.9	3668.7	3695.0	3695.0	3682.7	3666.9	3619.6	3523.2	3421.5	3270.8
15°	3661.7	3666.9	3710.7	3759.8	3775.6	3763.3	3756.3	3707.2	3607.3	3495.1	3333.9
17.5°	3717.7	3723.0	3793.1	3866.7	3886.0	3872.0	3858.0	3808.9	3702.0	3579.3	3405.7
20°	3800.1	3814.2	3903.5	3998.2	4015.7	3998.2	3970.2	3901.8	3794.9	3670.4	3474.1
22.5°	3950.9	3959.6	4056.0	4156.0	4164.7	4136.7	4094.6	4000.0	3887.8	3766.8	3551.2
25°	4150.7	4163.0	4259.4	4355.8	4333.0	4290.9	4233.1	4126.2	3998.2	3880.8	3649.4
27.5°	4389.1	4403.1	4497.8	4581.9	4522.3	4473.2	4408.4	4275.1	4145.4	4038.5	3775.6
30°	4646.7	4659.0	4743.2	4818.5	4739.6	4681.8	4604.7	4468.0	4336.5	4255.9	3954.4
32.5°	4895.6	4893.9	4974.5	5035.9	4955.2	4909.7	4839.6	4701.1	4595.9	4560.9	4220.8
35°	5127.0	5127.0	5193.6	5255.0	5197.1	5172.6	5107.7	4997.3	4937.7	4979.8	4576.6
37.5°	5360.1	5347.9	5411.0	5479.3	5474.1	5475.8	5439.0	5386.4	5389.9	5538.9	5065.7
40°	5553.0	5547.7	5621.3	5710.7	5780.8	5836.9	5814.1	5833.4	5943.8	6222.5	5691.4
42.5°	5707.2	5719.5	5814.1	5956.1	6133.1	6247.1	6262.9	6341.7	6625.7	7056.9	6397.8
45°	5884.2	5886.0	6017.5	6234.8	6517.0	6697.6	6760.7	6964.0	7367.1	7922.8	7172.6
47.5°	6101.6	6080.6	6227.8	6532.8	6941.2	7207.6	7319.8	7574.0	8198.0	8767.6	7803.6
50°	6341.7	6303.2	6469.7	6885.1	7416.2	7749.2	7977.1	8348.7	9021.8	9461.8	8273.3
52.5°	6620.4	6583.6	6772.9	7290.0	7985.9	8390.8	8683.5	9058.6	9728.2	9991.1	8553.8
55°	6974.5	6937.7	7137.5	7775.5	8659.0	9184.8	9491.6	9807.1	10385.5	10382.0	8757.1
57.5°	7367.1	7316.3	7593.2	8389.0	9498.6	10045.5	10357.5	10511.7	10885.1	10685.2	8893.8
60°	7817.6	7772.0	8155.9	9120.0	10467.9	10974.5	11170.8	11107.7	11295.2	10864.0	8846.5
62.5°	8224.3	8203.2	8680.0	9894.7	11391.6	11819.3	11873.7	11598.5	11596.7	10867.5	8527.5
65°	8646.7	8687.0	9395.2	10786.9	12320.6	12608.1	12515.2	12085.7	11717.6	10438.1	7584.5
67.5°	8804.5	8921.9	9866.7	11593.2	13053.3	13277.7	13114.7	12329.4	11214.6	8993.8	5775.6
70°	7829.9	8050.7	9421.4	11638.8	13356.5	13570.4	13179.5	11673.8	9349.6	5957.9	3163.9
72.5°	5954.4	6212.0	7850.9	9530.1	12012.1	12499.4	11831.6	9510.8	6026.2	2610.0	1062.2
75°	3332.1	3610.8	5847.4	7176.1	8064.8	8510.0	8264.6	6101.6	2669.6	681.8	317.3
77.5°	1127.1	1220.0	2720.4	4439.9	5323.3	4923.7	4168.2	3030.6	981.6	259.4	168.3
80°	667.8	702.9	1013.1	2210.3	2801.0	2322.5	1833.5	1120.1	499.6	138.5	117.4
82.5°	199.8	236.6	559.2	820.3	1097.3	683.6	578.4	639.8	259.4	75.4	98.2
85°	0.0	0.0	119.2	254.2	287.5	112.2	112.2	362.8	47.3	31.6	71.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	8.8	5.3	7.0	15.8
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°	3269.0	3269.0	3269.0	3269.0	3269.0	3269.0	3269.0	3269.0	3269.0	3269.0	3269.0
2.5°	3248.0	3186.6	3114.8	3046.4	2981.6	2897.4	2857.1	2808.0	2766.0	2743.2	2755.4
5°	3183.1	3086.7	2939.5	2790.5	2639.8	2497.8	2369.8	2283.9	2206.8	2166.5	2175.3
7.5°	3127.0	2997.3	2767.7	2524.1	2282.2	2038.5	1840.5	1686.2	1567.0	1517.9	1509.2
10°	3102.5	2939.5	2615.2	2264.7	1893.1	1565.3	1284.8	1114.8	993.9	934.3	944.8
12.5°	3114.8	2909.7	2485.5	2010.5	1528.5	1146.3	878.2	718.7	632.8	597.7	588.9
15°	3149.8	2902.7	2369.8	1751.1	1179.7	801.0	606.5	541.6	524.1	520.6	520.6
17.5°	3190.1	2904.4	2250.6	1488.2	895.7	594.2	518.8	506.6	501.3	497.8	499.6
20°	3230.5	2904.4	2113.9	1221.7	673.1	513.6	494.3	485.5	480.3	478.5	478.5
22.5°	3279.5	2904.4	1961.4	974.6	539.9	487.3	471.5	466.3	461.0	459.2	457.5
25°	3339.1	2906.2	1793.1	762.5	490.8	464.5	452.2	447.0	441.7	438.2	438.2
27.5°	3425.0	2920.2	1607.3	594.2	462.7	443.5	432.9	427.7	422.4	417.2	417.2
30°	3549.5	2955.3	1398.8	490.8	436.5	420.7	410.2	406.7	401.4	396.1	394.4
32.5°	3735.3	3016.6	1183.2	440.0	411.9	396.1	383.9	380.4	375.1	369.8	368.1
35°	3994.7	3128.8	972.8	408.4	380.4	364.6	357.6	355.8	348.8	343.6	343.6
37.5°	4375.1	3311.1	771.2	376.9	354.1	341.8	333.0	329.5	322.5	317.3	315.5
40°	4839.6	3547.7	599.5	352.3	329.5	317.3	308.5	303.2	294.5	287.5	284.0
42.5°	5432.0	3836.9	473.3	326.0	306.7	294.5	287.5	276.9	264.7	254.2	252.4
45°	6049.0	4134.9	390.9	301.5	285.7	275.2	266.4	252.4	234.9	222.6	219.1
47.5°	6522.3	4320.7	341.8	275.2	262.9	254.2	243.6	226.1	205.1	191.1	187.6
50°	6860.6	4348.8	305.0	250.7	243.6	234.9	219.1	198.1	175.3	161.3	157.8
52.5°	7027.1	4222.6	275.2	227.9	222.6	213.8	194.6	171.8	147.2	133.2	129.7
55°	7102.5	3984.2	247.1	208.6	201.6	191.1	170.0	145.5	120.9	108.7	105.2
57.5°	7072.7	3631.9	222.6	189.3	180.5	168.3	145.5	119.2	99.9	87.6	85.9
60°	6851.8	3137.6	198.1	170.0	159.5	145.5	122.7	98.2	80.6	71.9	70.1
62.5°	6375.0	2524.1	173.5	147.2	140.2	126.2	105.2	80.6	66.6	61.3	59.6
65°	5398.7	1784.4	149.0	124.5	120.9	106.9	87.6	66.6	57.8	54.3	52.6
67.5°	3880.8	1085.0	126.2	106.9	103.4	91.1	73.6	57.8	52.6	50.8	50.8
70°	1950.9	513.6	99.9	87.6	87.6	75.4	63.1	52.6	50.8	49.1	49.1
72.5°	662.6	219.1	75.4	68.4	71.9	64.9	54.3	49.1	49.1	49.1	49.1
75°	226.1	115.7	52.6	49.1	52.6	52.6	47.3	47.3	49.1	49.1	49.1
77.5°	147.2	77.1	36.8	33.3	40.3	40.3	40.3	43.8	47.3	47.3	47.3
80°	120.9	42.1	24.5	22.8	29.8	29.8	33.3	40.3	43.8	43.8	43.8
82.5°	103.4	26.3	14.0	15.8	21.0	22.8	28.0	33.3	38.6	40.3	40.3
85°	70.1	14.0	10.5	12.3	14.0	17.5	22.8	28.0	31.6	35.1	35.1
87.5°	19.3	5.3	7.0	8.8	8.8	12.3	17.5	21.0	24.5	26.3	26.3
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)