

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: P638722

Luminaire Tested: GWS-SA4F-735-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638722
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-735-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26270.2 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

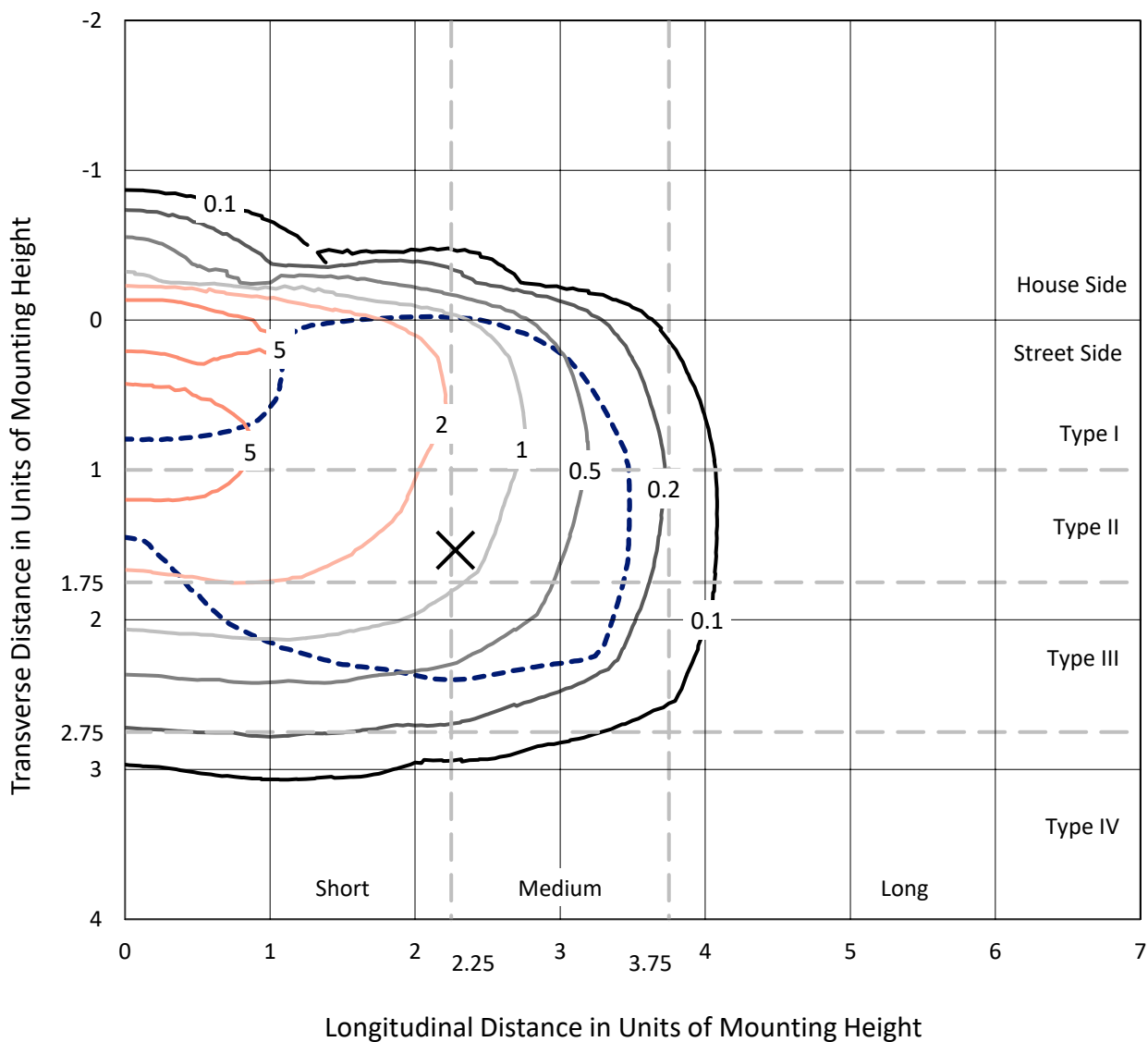
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

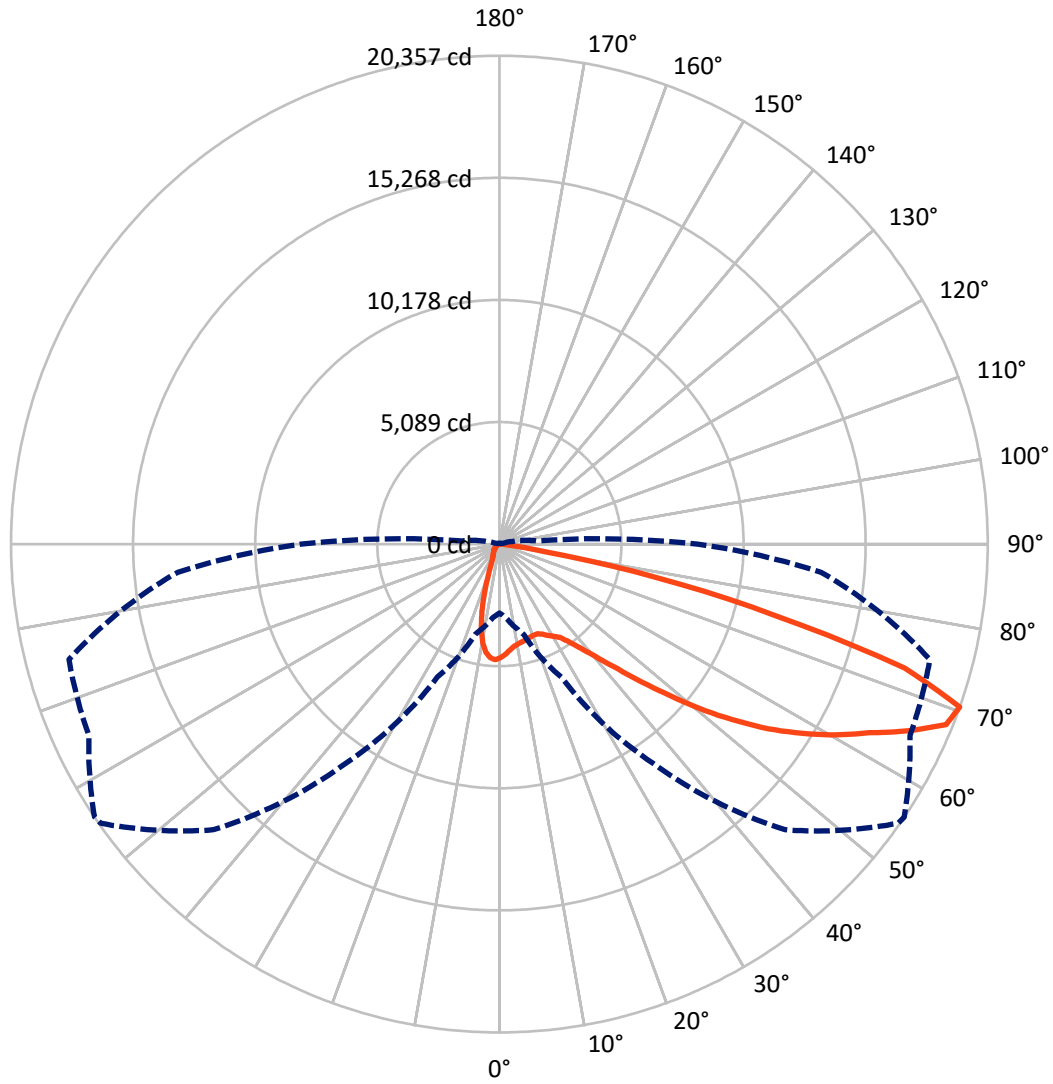
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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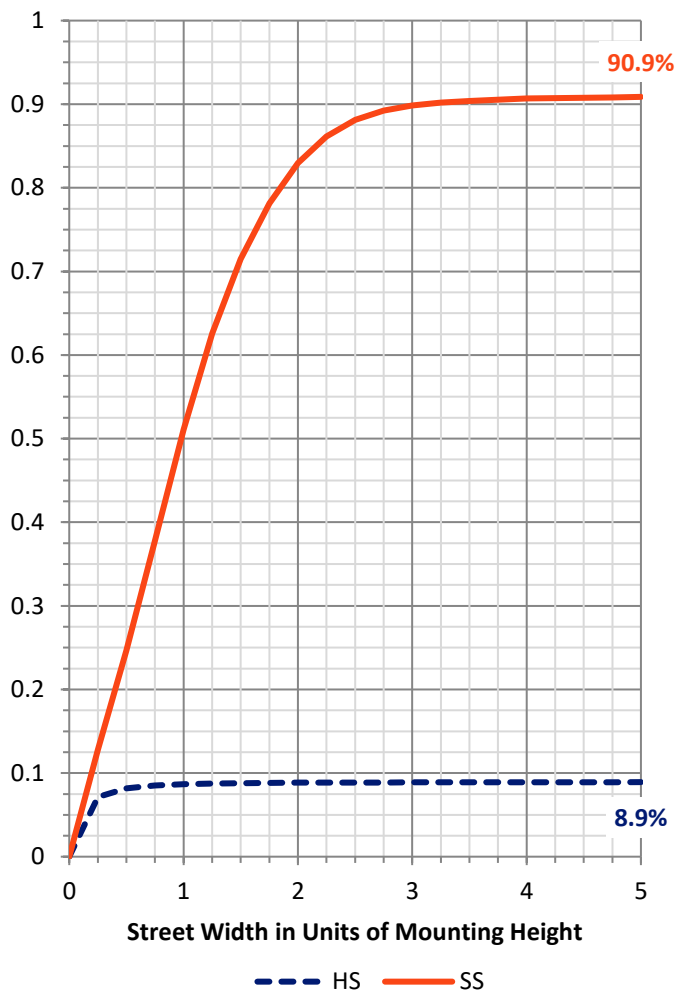
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2359.6	0.0	2359.6
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	23910.6	0.0	23910.6
	% Fixture	91.0	0.0	91.0
Total	Lumens	26270.2	0.0	26270.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.7	1.5
10°-20°	914.7	3.5
20°-30°	1448.9	5.5
30°-40°	2498.6	9.5
40°-50°	4219.3	16.1
50°-60°	6199.5	23.6
60°-70°	7349.8	28.0
70°-80°	3134.3	11.9
80°-90°	98.4	0.4
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°	26270.2	100.0
0°-180°	26270.2	100.0

Coefficient of Utilization



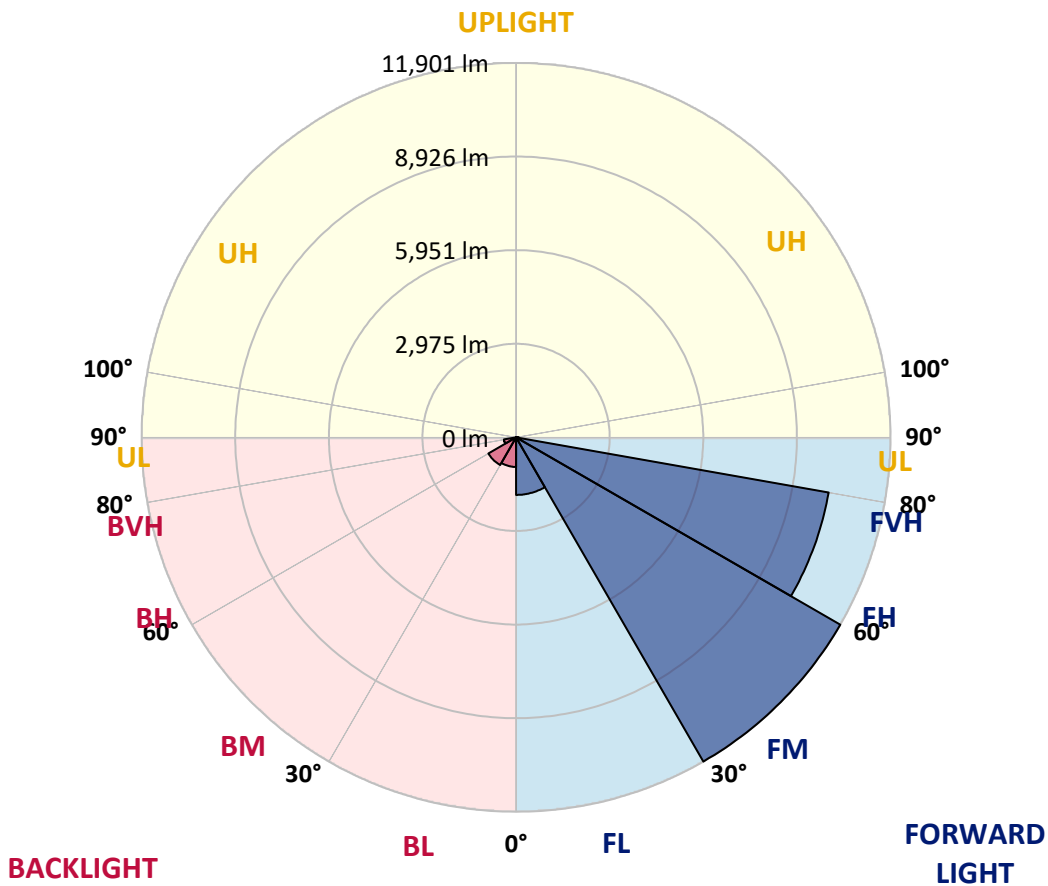
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1830.5	7.0			
FM (30°-60°)	11901.1	45.3			
FH (60°-80°)	10090.6	38.4			G4/12000
FVH (80°-90°)	88.4	0.3			G1/100
BL (0°-30°)	939.7	3.6	B2/1000		
BM (30°-60°)	1016.3	3.9	B2/2500		
BH (60°-80°)	393.6	1.5	B1/500		G1/500
BVH (80°-90°)	10.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4736.8	4736.8	4736.8	4736.8	4736.8	4736.8	4736.8	4736.8	4736.8	4736.8	4736.8
2.5°	4409.6	4402.4	4407.2	4443.3	4510.6	4541.9	4594.8	4604.5	4647.8	4703.1	4724.8
5°	4123.3	4099.3	4111.3	4161.8	4238.8	4325.4	4424.0	4450.5	4558.8	4681.5	4772.9
7.5°	3861.1	3834.7	3863.5	3942.9	4051.2	4145.0	4291.7	4308.6	4481.8	4698.3	4864.3
10°	3449.7	3457.0	3514.7	3654.2	3820.2	4015.1	4212.3	4236.4	4450.5	4753.6	5011.0
12.5°	3134.6	3117.8	3180.3	3339.1	3572.4	3856.3	4152.2	4183.5	4452.9	4837.8	5198.7
15°	2987.9	2983.0	3009.5	3125.0	3351.1	3685.5	4096.9	4137.8	4484.2	4914.8	5376.7
17.5°	2992.7	2985.4	2983.0	3050.4	3218.8	3558.0	4036.7	4089.7	4510.6	4999.0	5564.3
20°	3202.0	3168.3	3108.1	3076.9	3177.9	3476.2	3995.8	4056.0	4549.1	5088.0	5764.0
22.5°	3639.8	3651.8	3490.6	3322.2	3274.1	3485.8	3991.0	4060.8	4633.3	5227.5	6009.4
25°	4515.5	4496.2	4197.9	3820.2	3558.0	3596.5	4075.2	4159.4	4799.3	5427.2	6240.3
27.5°	5612.4	5629.3	5220.3	4618.9	4070.4	3825.0	4229.2	4313.4	4991.8	5552.3	6394.3
30°	6808.1	6791.2	6353.4	5687.0	4796.9	4205.1	4383.1	4457.7	5088.0	5619.7	6553.1
32.5°	7938.7	7900.2	7467.2	6769.6	5723.1	4804.1	4594.8	4638.1	5215.5	5766.4	6767.2
35°	8903.4	8901.0	8523.3	7780.0	6675.8	5554.7	4958.1	4994.2	5453.7	5999.8	7082.3
37.5°	9899.4	9865.7	9442.3	8763.9	7654.9	6377.5	5513.8	5499.4	5829.0	6343.8	7469.6
40°	10717.3	10695.6	10370.9	9718.9	8672.5	7286.8	6187.4	6144.1	6274.0	6820.1	8008.5
42.5°	11323.5	11325.9	11224.9	10828.0	9750.2	8338.1	7034.2	6966.8	6964.4	7539.4	8720.6
45°	11783.0	11814.3	11965.8	11905.7	11022.8	9562.6	8119.2	8049.4	7931.5	8472.8	9536.1
47.5°	11997.1	12038.0	12495.1	12735.7	12136.6	10777.4	9411.0	9264.3	9033.3	9714.1	10447.9
50°	11975.5	12047.6	12685.1	13416.5	13147.0	12009.1	10818.3	10748.6	10370.9	11027.6	11350.0
52.5°	11484.7	11638.7	12697.2	13830.2	13924.1	13144.6	12273.8	12143.9	11961.0	12398.9	12196.8
55°	10152.0	10339.6	12189.6	13962.6	14530.3	14135.8	13697.9	13592.1	13289.0	13693.1	12935.3
57.5°	9427.9	9589.0	11121.5	13897.6	15045.1	15052.3	14965.7	14879.1	14628.9	14972.9	13801.4
60°	8992.4	9153.6	10551.3	13659.4	15511.8	16019.4	16156.5	16146.9	15786.1	16428.4	14816.6
62.5°	8354.9	8576.2	9957.1	13041.2	15843.8	16972.1	17385.8	17320.9	16919.1	17944.0	15822.1
65°	7067.9	7260.3	8739.8	12021.2	15648.9	17761.1	18718.6	18752.3	18288.0	19370.5	16616.0
67.5°	4955.7	5097.6	6567.5	9880.1	14325.8	18020.9	20082.6	20080.2	19288.7	20101.9	16264.8
70°	2872.4	3067.2	3880.4	6108.0	11145.5	16839.8	20287.1	20356.9	18882.2	18574.2	13459.8
72.5°	1111.4	1272.6	2198.8	3245.3	5812.1	12899.2	17450.8	17655.3	15802.9	14328.2	9367.7
75°	332.0	370.5	1034.4	1727.3	2333.5	6230.7	11814.3	11872.0	10840.0	8937.1	4801.7
77.5°	247.8	274.2	452.3	873.3	817.9	1888.5	6112.8	6675.8	5754.4	3192.3	1323.1
80°	168.4	199.7	322.4	425.8	303.1	502.8	1717.7	1886.1	1756.1	716.9	332.0
82.5°	74.6	96.2	228.5	214.1	110.7	144.3	529.2	562.9	363.3	216.5	115.5
85°	7.2	9.6	86.6	93.8	40.9	33.7	110.7	110.7	79.4	74.6	48.1
87.5°	0.0	0.0	2.4	4.8	4.8	7.2	9.6	12.0	14.4	19.2	24.1
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°	4736.8	4736.8	4736.8	4736.8	4736.8	4736.8	4736.8	4736.8	4736.8	4736.8	4736.8
2.5°	4780.1	4751.2	4787.3	4816.2	4823.4	4770.5	4739.2	4693.5	4683.9	4686.3	4674.2
5°	4845.0	4830.6	4857.1	4825.8	4744.0	4590.0	4457.7	4311.0	4231.6	4185.9	4181.1
7.5°	4965.3	4958.1	4929.2	4787.3	4532.3	4190.7	3861.1	3538.8	3339.1	3266.9	3254.9
10°	5143.3	5128.9	5011.0	4674.2	4130.6	3473.8	2920.5	2458.6	2177.1	2095.3	1994.3
12.5°	5347.8	5319.0	5061.5	4431.3	3524.3	2615.0	1924.5	1407.3	1164.3	1092.2	1092.2
15°	5545.1	5482.5	5032.7	4029.5	2778.6	1700.8	1075.3	813.1	738.5	719.3	719.3
17.5°	5747.2	5626.9	4919.6	3481.0	1919.7	1005.6	716.9	666.4	656.8	659.2	661.6
20°	5937.2	5749.6	4719.9	2821.9	1224.5	702.5	642.3	630.3	625.5	630.3	627.9
22.5°	6144.1	5862.6	4416.8	2102.6	796.3	632.7	611.0	601.4	596.6	603.8	603.8
25°	6348.6	5944.4	4015.1	1414.5	632.7	589.4	577.4	567.7	562.9	565.3	565.3
27.5°	6454.4	5913.2	3488.2	902.1	567.7	546.1	534.1	522.0	514.8	512.4	514.8
30°	6526.6	5816.9	2843.5	642.3	514.8	488.4	476.3	466.7	447.5	435.4	440.2
32.5°	6639.7	5720.7	2143.5	538.9	471.5	430.6	411.4	387.3	360.9	348.8	348.8
35°	6774.4	5588.4	1503.5	485.9	425.8	382.5	346.4	305.5	274.2	264.6	264.6
37.5°	6952.4	5463.3	1000.8	449.9	387.3	341.6	291.1	243.0	209.3	204.5	202.1
40°	7219.4	5357.4	704.9	423.4	353.6	298.3	238.2	187.6	163.6	156.4	156.4
42.5°	7565.9	5249.2	558.1	396.9	324.8	257.4	190.0	149.2	129.9	125.1	122.7
45°	7994.1	5121.7	485.9	372.9	295.9	214.1	151.6	125.1	110.7	105.8	105.8
47.5°	8458.4	4948.5	452.3	341.6	262.2	173.2	127.5	108.3	101.0	98.6	96.2
50°	8915.4	4715.1	423.4	312.7	223.7	141.9	110.7	98.6	93.8	91.4	91.4
52.5°	9314.8	4443.3	387.3	279.1	182.8	122.7	98.6	91.4	86.6	81.8	79.4
55°	9656.4	4147.4	341.6	240.6	149.2	108.3	91.4	84.2	79.4	74.6	72.2
57.5°	10096.6	3979.0	274.2	194.9	122.7	96.2	84.2	77.0	72.2	65.0	65.0
60°	10585.0	3856.3	204.5	154.0	105.8	89.0	77.0	69.8	65.0	57.7	57.7
62.5°	10977.1	3673.5	161.2	125.1	91.4	79.4	69.8	62.5	57.7	50.5	50.5
65°	11126.3	3295.8	132.3	98.6	74.6	69.8	62.5	57.7	50.5	43.3	43.3
67.5°	10452.7	2540.4	110.7	79.4	62.5	60.1	55.3	52.9	43.3	38.5	36.1
70°	8277.9	1549.3	91.4	65.0	52.9	50.5	50.5	45.7	38.5	36.1	33.7
72.5°	5672.6	798.7	74.6	52.9	45.7	45.7	43.3	40.9	36.1	33.7	33.7
75°	2947.0	267.0	57.7	40.9	36.1	38.5	38.5	36.1	33.7	33.7	31.3
77.5°	844.4	120.3	43.3	31.3	28.9	28.9	31.3	31.3	31.3	28.9	28.9
80°	218.9	69.8	31.3	24.1	24.1	24.1	24.1	26.5	28.9	26.5	26.5
82.5°	89.0	38.5	21.7	19.2	19.2	19.2	19.2	21.7	24.1	24.1	24.1
85°	55.3	19.2	16.8	16.8	16.8	14.4	14.4	16.8	16.8	19.2	19.2
87.5°	33.7	14.4	14.4	14.4	14.4	12.0	12.0	12.0	12.0	12.0	12.0
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)