

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: P638881

Luminaire Tested: GWS-SA4F-760-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638881
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-760-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21197.5 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

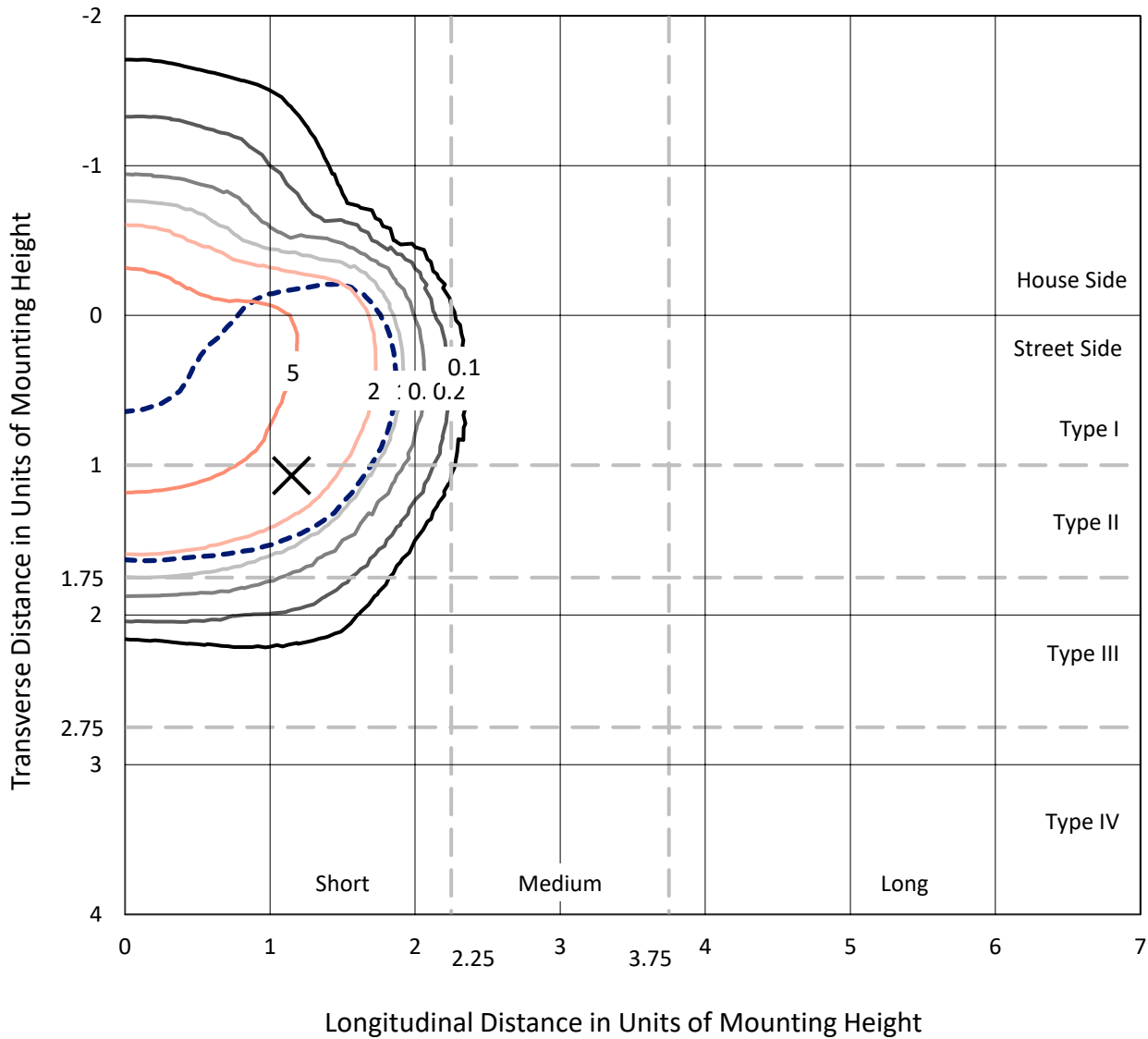
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

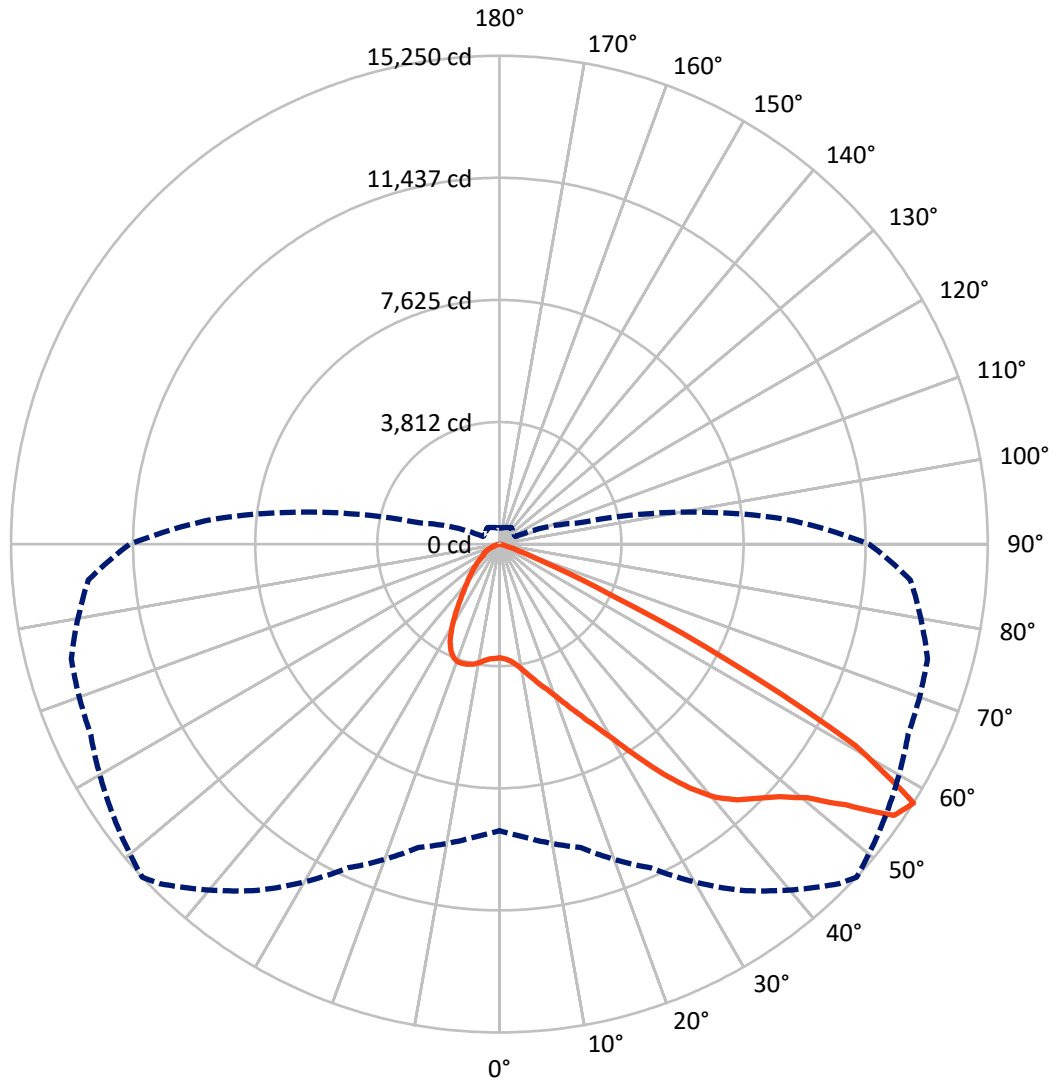
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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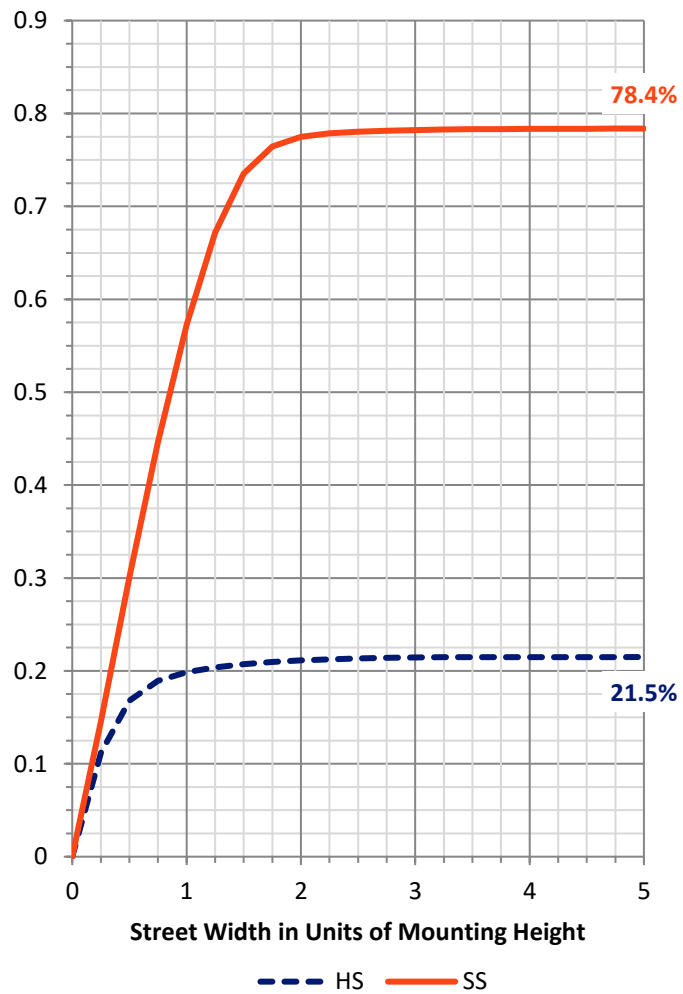
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4598.8	0.0	4598.8
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	16598.7	0.0	16598.7
	% Fixture	78.3	0.0	78.3
Total	Lumens	21197.5	0.0	21197.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.0	1.7
10°-20°	1191.2	5.6
20°-30°	2211.8	10.4
30°-40°	3540.7	16.7
40°-50°	5175.7	24.4
50°-60°	6387.7	30.1
60°-70°	2134.4	10.1
70°-80°	198.9	0.9
80°-90°	4.1	0.0
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°	21197.5	100.0
0°-180°	21197.5	100.0

Coefficient of Utilization



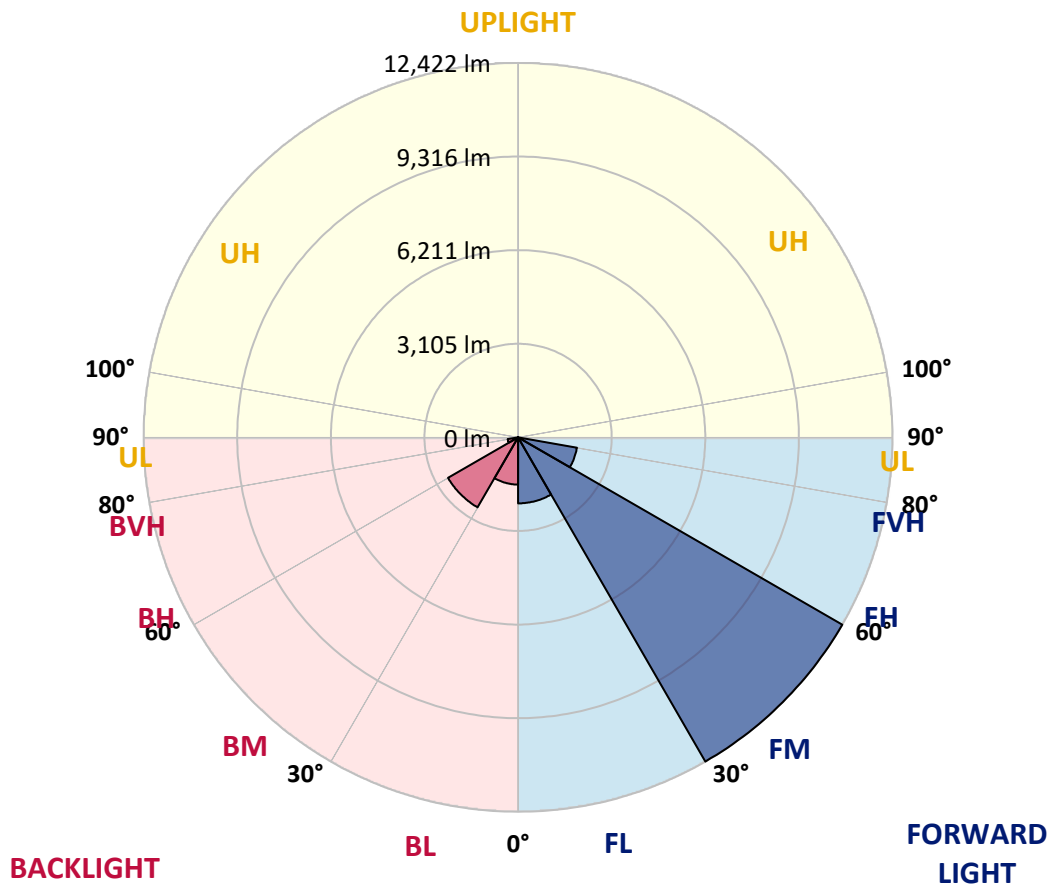
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2190.7	10.3			
FM (30°-60°)	12421.6	58.6			
FH (60°-80°)	1983.6	9.4			G2/5000
FVH (80°-90°)	2.8	0.0			G0/10
BL (0°-30°)	1565.4	7.4	B3/2500		
BM (30°-60°)	2682.5	12.7	B3/5000		
BH (60°-80°)	349.6	1.6	B1/500		G1/500
BVH (80°-90°)	1.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3548.5	3548.5	3548.5	3548.5	3548.5	3548.5	3548.5	3548.5	3548.5	3548.5	3548.5
2.5°	3585.4	3582.9	3580.5	3595.2	3590.3	3587.9	3592.8	3592.8	3592.8	3578.0	3548.5
5°	3671.5	3671.5	3669.1	3683.8	3671.5	3664.1	3666.6	3666.6	3656.8	3629.7	3592.8
7.5°	3806.9	3801.9	3797.0	3811.8	3799.5	3797.0	3801.9	3787.2	3770.0	3725.7	3674.0
10°	4001.3	4001.3	3993.9	4008.7	3998.8	3993.9	3993.9	3984.0	3952.1	3883.2	3806.9
12.5°	4269.5	4257.2	4240.0	4227.7	4222.7	4220.3	4222.7	4208.0	4173.5	4084.9	3979.1
15°	4562.3	4552.5	4525.4	4505.7	4478.7	4473.7	4488.5	4476.2	4441.8	4321.2	4171.1
17.5°	4931.5	4943.8	4874.9	4833.0	4754.3	4749.4	4754.3	4774.0	4749.4	4594.3	4375.3
20°	5246.4	5256.3	5204.6	5175.1	5103.7	5071.7	5081.6	5113.6	5086.5	4904.4	4599.2
22.5°	5583.6	5595.9	5541.7	5480.2	5448.2	5448.2	5485.1	5529.4	5492.5	5253.8	4855.2
25°	5987.1	5997.0	5952.7	5871.5	5814.9	5886.3	5940.4	6058.5	5997.0	5672.2	5157.9
27.5°	6449.8	6452.2	6388.3	6304.6	6275.1	6407.9	6462.1	6644.2	6619.6	6142.2	5477.8
30°	6944.4	6946.9	6932.1	6875.5	6848.4	7023.1	7097.0	7360.3	7343.0	6725.4	5913.3
32.5°	7458.7	7458.7	7485.8	7480.9	7512.8	7798.3	7916.4	8216.6	8199.4	7439.0	6454.7
35°	7975.5	7977.9	8024.7	8142.8	8275.7	8654.7	8809.7	9173.9	9134.5	8292.9	7146.2
37.5°	8563.6	8539.0	8603.0	8780.2	9075.5	9513.5	9661.1	10008.1	9963.8	9166.5	8049.3
40°	9272.3	9228.0	9228.0	9434.7	9769.4	10273.9	10399.4	10571.6	10421.5	9872.8	8935.2
42.5°	10054.9	10013.0	9958.9	10141.0	10421.5	10815.2	10918.6	10871.8	10748.8	10539.6	9944.1
45°	10847.2	10783.3	10820.2	10930.9	11093.3	11280.3	11319.7	11103.2	11046.6	11105.6	10778.3
47.5°	11450.1	11405.8	11496.9	11651.9	11784.8	11811.9	11784.8	11484.6	11479.7	11688.8	11356.6
50°	11651.9	11656.8	11907.8	12247.4	12461.5	12483.7	12446.8	12102.3	12055.5	12117.0	11669.1
52.5°	11671.6	11691.3	12058.0	12705.1	13288.4	13554.1	13524.6	13153.0	12695.3	12628.9	12141.6
55°	11196.7	11312.3	11824.2	12769.1	14009.4	14858.4	14956.8	14245.6	13566.4	13509.8	13157.9
57.5°	8950.0	9186.2	9803.9	11149.9	13204.7	14993.7	15249.6	14737.8	14080.7	13839.6	12884.8
60°	5349.8	5642.6	6235.7	7886.9	10049.9	12323.7	12764.2	12835.6	12532.9	11836.5	9885.1
62.5°	2295.9	2271.3	3002.2	4267.0	5977.3	7832.7	8032.1	8342.1	8605.4	7877.0	5999.4
65°	787.5	856.4	1191.0	1924.4	2992.3	3637.1	3814.3	4092.3	4466.4	3686.3	2197.5
67.5°	487.2	516.8	686.6	1136.9	1614.3	1589.7	1510.9	1466.6	1427.3	976.9	602.9
70°	354.4	379.0	482.3	782.5	1085.2	762.9	662.0	536.5	595.5	548.8	428.2
72.5°	238.7	258.4	332.2	474.9	556.1	371.6	344.5	391.3	472.5	450.3	349.4
75°	142.7	155.0	189.5	231.3	226.4	191.9	194.4	275.6	361.7	337.1	248.5
77.5°	98.4	103.4	125.5	150.1	110.7	59.1	54.1	76.3	123.0	123.0	83.7
80°	24.6	32.0	32.0	19.7	17.2	14.8	14.8	22.1	34.5	24.6	12.3
82.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4.9	4.9	4.9	4.9
85°	0.0	0.0	2.5	2.5	2.5	2.5	2.5	2.5	4.9	4.9	4.9
87.5°	0.0	0.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4.9	4.9
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°	3548.5	3548.5	3548.5	3548.5	3548.5	3548.5	3548.5	3548.5	3548.5	3548.5	3548.5
2.5°	3565.7	3536.2	3555.9	3550.9	3565.7	3570.6	3548.5	3543.6	3546.0	3516.5	3506.7
5°	3600.2	3565.7	3575.6	3565.7	3582.9	3597.7	3590.3	3600.2	3612.5	3590.3	3580.5
7.5°	3674.0	3639.5	3637.1	3622.3	3646.9	3656.8	3654.3	3681.4	3706.0	3691.2	3676.4
10°	3801.9	3755.2	3750.3	3738.0	3745.3	3752.7	3725.7	3730.6	3752.7	3735.5	3728.1
12.5°	3959.4	3902.8	3890.5	3861.0	3861.0	3824.1	3765.0	3752.7	3770.0	3757.7	3745.3
15°	4129.2	4052.9	4033.3	3981.6	3932.4	3863.5	3801.9	3787.2	3799.5	3784.7	3774.9
17.5°	4318.7	4232.6	4168.6	4077.6	3969.3	3888.1	3819.2	3787.2	3767.5	3738.0	3735.5
20°	4505.7	4392.5	4284.3	4139.1	3996.4	3873.3	3760.1	3676.4	3605.1	3560.8	3543.6
22.5°	4722.3	4555.0	4380.2	4176.0	3971.7	3784.7	3585.4	3442.7	3319.6	3277.8	3258.1
25°	4953.6	4737.1	4476.2	4210.4	3888.1	3587.9	3317.2	3105.5	2943.1	2889.0	2866.8
27.5°	5209.5	4911.8	4574.6	4203.1	3715.8	3307.3	2948.0	2684.7	2524.8	2475.6	2492.8
30°	5534.4	5138.2	4697.7	4126.8	3457.4	2913.6	2492.8	2271.3	2150.7	2104.0	2106.5
32.5°	5967.5	5463.0	4877.3	3964.4	3125.2	2465.7	2096.6	1934.2	1853.0	1791.5	1786.5
35°	6587.6	5957.6	5044.7	3703.5	2721.7	2067.1	1798.9	1670.9	1557.7	1486.3	1498.6
37.5°	7330.7	6580.2	5135.7	3351.6	2268.9	1757.0	1574.9	1444.5	1316.5	1210.7	1223.0
40°	8211.7	7394.7	5128.3	2889.0	1855.4	1545.4	1387.9	1235.3	1075.4	979.4	989.2
42.5°	9193.6	8165.0	4968.4	2399.3	1538.0	1373.1	1208.3	1016.3	861.3	802.2	804.7
45°	10045.0	8790.0	4687.8	1892.4	1294.4	1205.8	1021.2	824.4	755.5	713.6	711.2
47.5°	10675.0	9247.7	4286.7	1488.8	1097.5	1053.2	839.1	738.2	684.1	649.7	644.7
50°	11026.9	9407.7	3843.8	1166.4	927.7	893.3	750.5	669.3	632.4	610.3	605.4
52.5°	11499.4	9599.6	3526.3	920.3	777.6	730.9	691.5	622.6	598.0	580.8	573.4
55°	12247.4	9971.2	3250.7	730.9	647.2	637.3	652.1	595.5	580.8	553.7	543.8
57.5°	11543.6	8957.3	2524.8	566.0	546.3	583.2	630.0	568.4	531.5	506.9	497.1
60°	8123.1	5955.2	1269.8	455.2	487.2	546.3	593.1	514.3	477.4	482.3	477.4
62.5°	4478.7	2980.0	570.9	381.4	423.3	482.3	506.9	445.4	420.8	462.6	470.0
65°	1464.2	1013.9	329.7	295.3	334.7	393.7	438.0	423.3	418.3	467.6	482.3
67.5°	450.3	334.7	223.9	211.6	231.3	290.4	369.1	457.7	492.2	506.9	514.3
70°	337.1	263.3	191.9	179.6	189.5	221.5	312.5	381.4	359.3	361.7	356.8
72.5°	270.7	209.2	164.9	157.5	157.5	152.6	164.9	206.7	233.8	246.1	246.1
75°	189.5	147.6	125.5	115.7	91.0	73.8	66.4	66.4	59.1	56.6	54.1
77.5°	64.0	54.1	49.2	39.4	27.1	22.1	19.7	17.2	12.3	7.4	4.9
80°	9.8	7.4	4.9	4.9	4.9	2.5	2.5	2.5	0.0	0.0	0.0
82.5°	4.9	4.9	4.9	4.9	4.9	2.5	2.5	0.0	0.0	0.0	0.0
85°	4.9	4.9	4.9	4.9	4.9	2.5	2.5	0.0	0.0	0.0	0.0
87.5°	4.9	4.9	4.9	4.9	2.5	2.5	2.5	0.0	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)