

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: P637845

Luminaire Tested: GWS-SA4D-750-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637845
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-750-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24196.2 lumens
Efficiency: N/A
Efficacy: 149.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

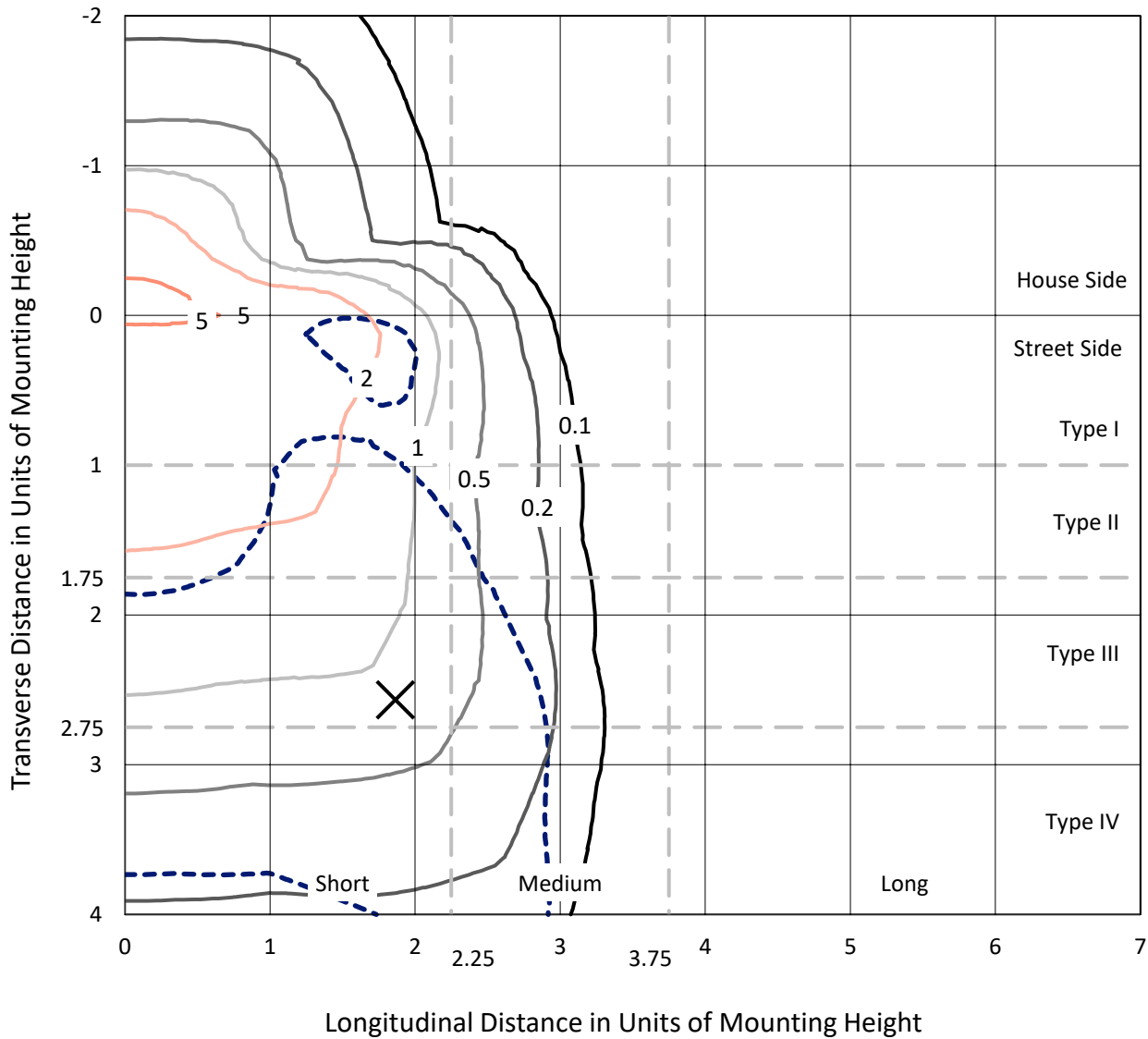
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

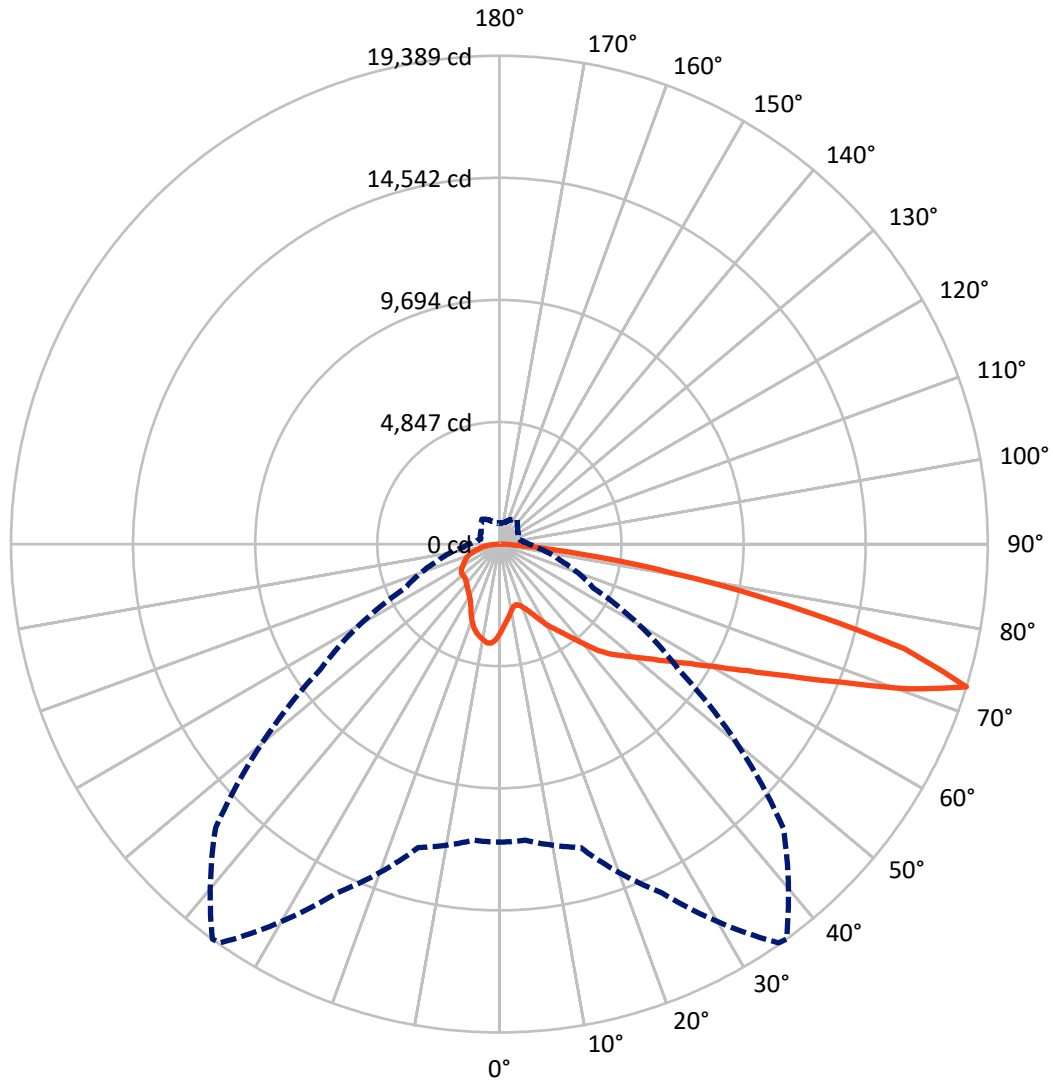
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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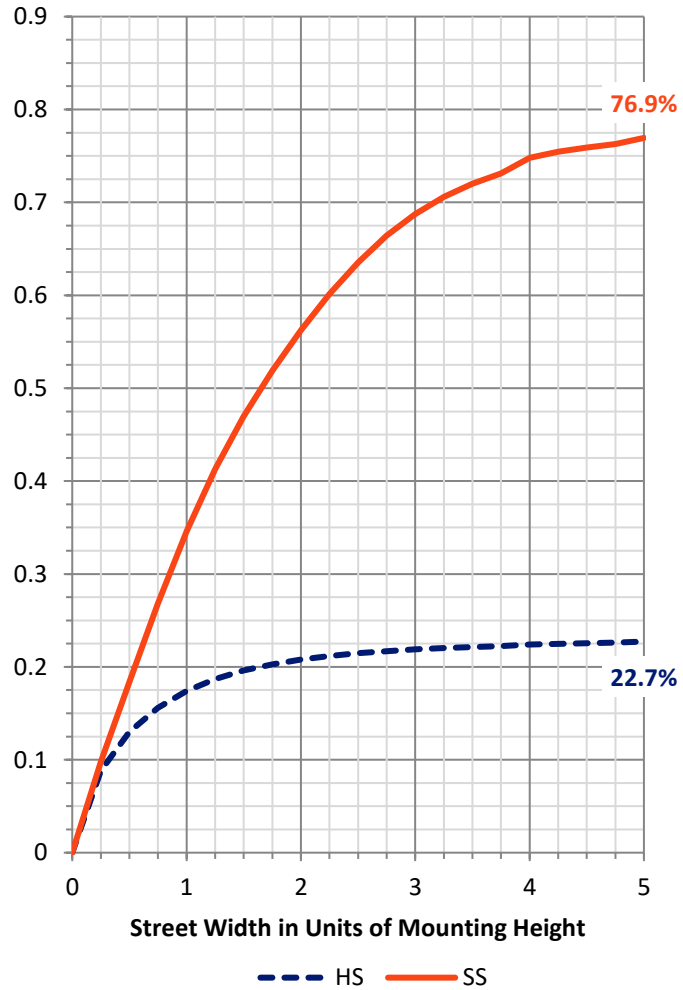
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5578.3	0.0	5578.3
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	18617.9	0.0	18617.9
	% Fixture	76.9	0.0	76.9
Total	Lumens	24196.2	0.0	24196.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.0	1.4
10°-20°	933.9	3.9
20°-30°	1546.7	6.4
30°-40°	2316.3	9.6
40°-50°	3379.2	14.0
50°-60°	4809.7	19.9
60°-70°	6076.6	25.1
70°-80°	4330.1	17.9
80°-90°	472.7	2.0
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°	24196.2	100.0
0°-180°	24196.2	100.0

Coefficient of Utilization



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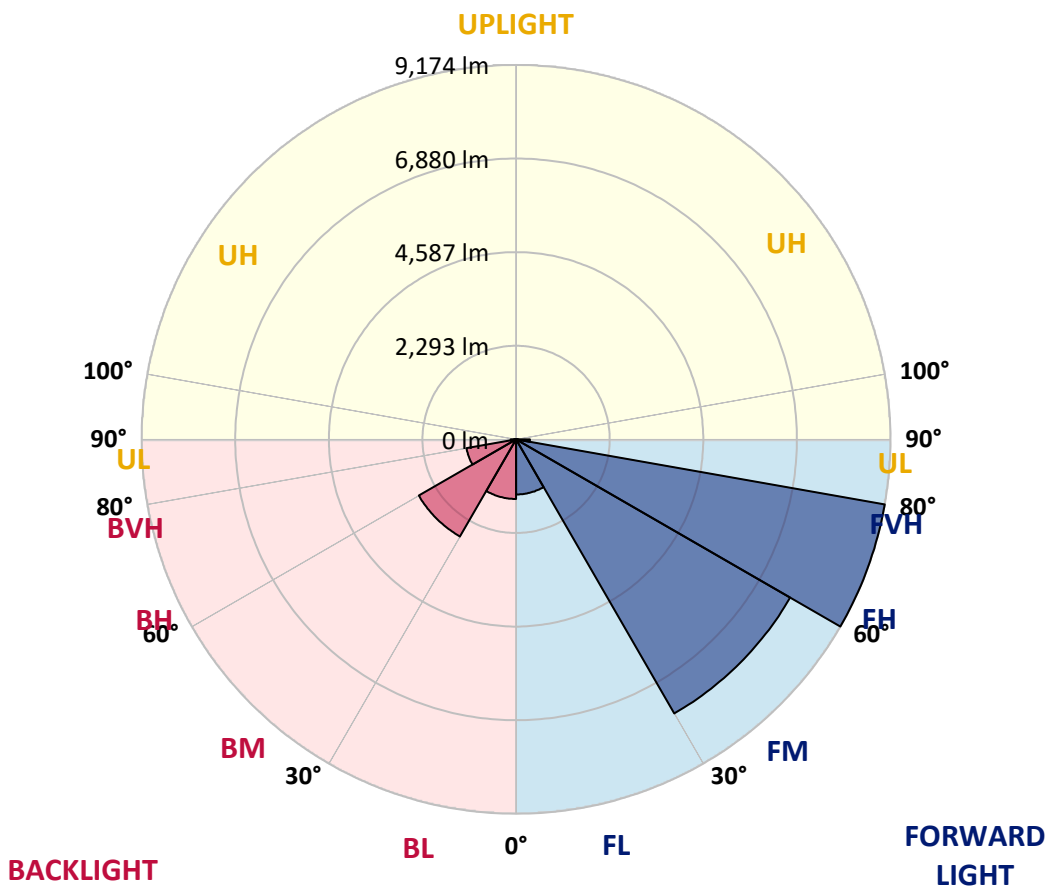
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1350.8	5.6			
FM (30°-60°)	7754.3	32.0			
FH (60°-80°)	9173.6	37.9			G4/12000
FVH (80°-90°)	339.3	1.4			G3/500
BL (0°-30°)	1460.8	6.0	B3/2500		
BM (30°-60°)	2750.9	11.4	B3/5000		
BH (60°-80°)	1233.2	5.1	B3/2500		G3/2500
BVH (80°-90°)	133.4	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	3541.2	3541.2	3541.2	3541.2	3541.2	3541.2	3541.2	3541.2	3541.2	3541.2	3541.2
2.5°	3230.6	3225.2	3214.4	3246.7	3279.0	3275.5	3320.3	3363.4	3410.1	3458.6	3523.3
5°	2972.0	2968.4	2959.4	3007.9	3056.4	3054.6	3128.2	3198.2	3293.4	3397.6	3526.9
7.5°	2713.4	2704.4	2717.0	2778.0	2846.3	2853.4	2954.0	3068.9	3207.2	3363.4	3546.6
10°	2485.3	2483.5	2488.9	2557.2	2659.5	2666.7	2796.0	2955.8	3139.0	3347.3	3591.5
12.5°	2426.1	2422.5	2408.1	2442.2	2519.4	2530.2	2672.1	2867.8	3092.3	3356.3	3652.6
15°	2523.0	2514.1	2463.8	2447.6	2485.3	2494.3	2614.6	2815.7	3065.3	3372.4	3729.8
17.5°	2690.0	2684.6	2589.5	2523.0	2548.2	2555.4	2645.1	2806.8	3058.2	3404.7	3825.0
20°	2934.3	2910.9	2761.9	2661.3	2661.3	2672.1	2726.0	2846.3	3067.1	3444.3	3932.7
22.5°	3257.5	3210.8	3000.7	2864.2	2828.3	2842.7	2866.0	2945.0	3104.9	3510.7	4067.4
25°	3620.2	3577.1	3327.5	3135.4	3085.1	3090.5	3070.7	3085.1	3187.5	3602.3	4234.4
27.5°	4006.3	3977.6	3711.8	3467.6	3388.6	3388.6	3318.5	3284.4	3302.4	3706.4	4421.1
30°	4351.1	4311.6	4087.1	3819.6	3715.4	3715.4	3582.5	3508.9	3465.8	3833.9	4670.8
32.5°	4532.5	4509.1	4360.1	4155.4	4027.9	4008.1	3893.2	3807.0	3706.4	4022.5	5008.4
35°	4769.5	4764.1	4674.3	4514.5	4352.9	4324.2	4245.2	4176.9	4002.7	4257.7	5457.3
37.5°	5067.6	5058.6	5044.3	4949.1	4755.2	4749.8	4679.7	4597.1	4370.9	4597.1	6001.4
40°	5401.6	5385.5	5367.5	5365.7	5249.0	5229.2	5223.8	5130.5	4814.4	5006.6	6568.9
42.5°	5861.3	5805.7	5636.9	5712.3	5798.5	5780.5	5848.8	5708.7	5367.5	5493.2	7105.8
45°	6427.0	6290.5	5956.5	5978.1	6195.3	6231.3	6468.3	6434.2	5976.3	6055.3	7671.5
47.5°	6766.4	6647.9	6337.2	6319.3	6590.4	6635.3	7150.7	7215.3	6631.7	6732.3	8370.0
50°	7044.7	6962.1	6707.1	6732.3	7019.6	7064.5	7827.7	7966.0	7249.4	7425.4	9181.7
52.5°	7380.5	7262.0	7064.5	7183.0	7535.0	7588.8	8580.1	8729.1	7806.1	8186.8	10022.1
55°	7569.1	7520.6	7524.2	7705.6	8147.3	8221.0	9368.4	9343.3	8316.1	8838.7	10654.2
57.5°	8003.7	7985.7	8150.9	8219.2	8862.0	8957.2	10156.8	9941.3	8779.4	9343.3	10957.7
60°	8770.5	8725.6	8869.2	8973.4	9745.5	9880.2	11036.7	10526.7	9093.7	9718.6	10855.3
62.5°	9847.9	9792.2	9797.6	9962.8	10928.9	11070.8	12015.4	11015.1	9190.7	9776.1	10207.1
65°	11187.5	11106.7	11015.1	11239.6	12500.2	12618.7	13080.3	11370.7	8959.0	9223.0	8853.1
67.5°	12600.8	12534.3	12426.6	12897.1	14534.8	14606.6	14274.4	11340.2	8224.5	7743.3	6209.7
70°	12683.4	12699.6	13209.5	14911.9	17190.7	17208.7	15404.0	10726.0	6660.4	5019.1	3094.1
72.5°	11832.2	11805.3	12469.7	15280.1	19327.7	19388.7	15937.3	8689.6	4115.9	2503.3	1451.0
75°	9610.9	9657.6	10356.1	13369.4	16565.8	16619.7	12992.3	5123.3	1955.6	1224.7	928.4
77.5°	4137.4	4397.8	5775.1	9418.7	11864.5	11697.5	6696.4	2075.9	1043.3	872.7	711.1
80°	1194.2	1296.5	2057.9	4478.6	7109.4	6983.7	2650.5	777.6	727.3	655.4	510.0
82.5°	386.1	427.4	754.2	1783.2	3185.7	3182.1	1005.6	459.7	475.9	445.3	328.6
85°	107.7	123.9	231.7	540.5	985.9	966.1	290.9	217.3	253.2	256.8	163.4
87.5°	0.0	0.0	1.8	3.6	3.6	3.6	7.2	32.3	73.6	93.4	66.4
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°	3541.2	3541.2	3541.2	3541.2	3541.2	3541.2	3541.2	3541.2	3541.2	3541.2	3541.2
2.5°	3562.8	3557.4	3631.0	3688.5	3742.3	3778.3	3789.0	3796.2	3810.6	3817.8	3810.6
5°	3587.9	3614.8	3737.0	3826.7	3898.6	3941.7	3943.5	3939.9	3950.7	3941.7	3936.3
7.5°	3641.8	3693.9	3848.3	3943.5	3990.2	3992.0	3948.9	3898.6	3873.4	3851.9	3844.7
10°	3713.6	3790.8	3959.6	4022.5	4008.1	3941.7	3846.5	3767.5	3722.6	3690.3	3683.1
12.5°	3812.4	3898.6	4058.4	4056.6	3966.8	3848.3	3737.0	3641.8	3577.1	3539.4	3526.9
15°	3905.8	4015.3	4130.2	4045.8	3904.0	3760.3	3616.6	3489.1	3402.9	3343.7	3332.9
17.5°	4020.7	4137.4	4182.3	4011.7	3825.0	3640.0	3447.8	3280.8	3164.1	3094.1	3088.7
20°	4153.6	4257.7	4207.4	3952.4	3722.6	3480.2	3219.8	3033.0	2907.3	2839.1	2844.5
22.5°	4308.0	4383.4	4214.6	3871.6	3580.7	3253.9	2963.0	2783.4	2699.0	2663.1	2664.9
25°	4473.2	4521.7	4202.1	3762.1	3363.4	2977.4	2699.0	2616.4	2609.2	2600.2	2603.8
27.5°	4669.0	4658.2	4164.3	3607.7	3070.7	2655.9	2514.1	2535.6	2564.3	2560.7	2564.3
30°	4931.1	4828.8	4115.9	3394.0	2722.4	2386.6	2404.5	2465.6	2503.3	2506.9	2517.6
32.5°	5231.0	5017.3	4038.6	3103.1	2390.1	2235.7	2302.2	2375.8	2420.7	2429.7	2444.0
35°	5588.4	5232.8	3902.2	2740.3	2151.3	2145.9	2207.0	2257.3	2305.7	2309.3	2309.3
37.5°	5999.6	5448.3	3684.9	2339.9	2004.1	2068.7	2126.2	2136.9	2149.5	2138.7	2144.1
40°	6376.7	5656.6	3376.0	1975.3	1883.7	2000.5	2049.0	2013.0	1973.5	1946.6	1952.0
42.5°	6692.8	5798.5	2966.6	1720.3	1761.6	1939.4	1977.1	1903.5	1826.3	1776.0	1783.2
45°	7048.3	5929.6	2485.3	1547.9	1657.5	1896.3	1921.5	1826.3	1727.5	1652.1	1641.3
47.5°	7538.6	6197.1	2057.9	1427.6	1583.9	1873.0	1914.3	1785.0	1655.7	1542.6	1530.0
50°	8143.7	6576.0	1700.6	1348.6	1549.7	1860.4	1912.5	1740.1	1585.6	1452.8	1443.8
52.5°	8804.6	6946.0	1436.6	1287.6	1515.6	1822.7	1903.5	1689.8	1512.0	1368.4	1357.6
55°	9244.5	7091.4	1258.8	1230.1	1459.9	1763.4	1867.6	1641.3	1400.7	1269.6	1253.4
57.5°	9373.8	6904.7	1134.9	1178.0	1388.1	1680.8	1799.3	1539.0	1332.4	1228.3	1215.7
60°	9151.2	6434.2	1057.7	1134.9	1309.1	1574.9	1680.8	1479.7	1278.6	1185.2	1176.2
62.5°	8522.6	5708.7	998.4	1090.0	1228.3	1463.5	1605.4	1407.9	1219.3	1145.7	1133.1
65°	7258.4	4681.5	950.0	1043.3	1151.1	1357.6	1522.8	1336.0	1154.7	1099.0	1084.6
67.5°	5076.6	3288.0	897.9	987.7	1073.9	1255.2	1436.6	1269.6	1088.2	1046.9	1032.6
70°	2481.7	1743.7	835.0	923.0	991.3	1151.1	1350.4	1188.8	1000.2	976.9	957.1
72.5°	1181.6	975.1	761.4	835.0	878.1	1012.8	1206.7	1072.1	896.1	845.8	811.7
75°	791.9	693.2	664.4	730.9	741.6	849.4	1034.4	924.8	790.1	732.7	703.9
77.5°	599.8	529.7	558.5	617.7	596.2	698.5	851.2	824.3	712.9	660.8	646.5
80°	422.0	386.1	443.6	479.5	463.3	594.4	766.8	705.7	587.2	529.7	519.0
82.5°	265.8	258.6	326.8	332.2	337.6	470.5	630.3	554.9	456.1	375.3	348.4
85°	132.9	147.3	195.7	195.7	193.9	242.4	359.2	312.5	246.0	195.7	190.3
87.5°	44.9	62.9	84.4	68.2	52.1	41.3	46.7	57.5	61.1	59.3	59.3
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)