

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: P637401

Luminaire Tested: GWS-SA4C-760-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637401
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-760-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17170.2 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

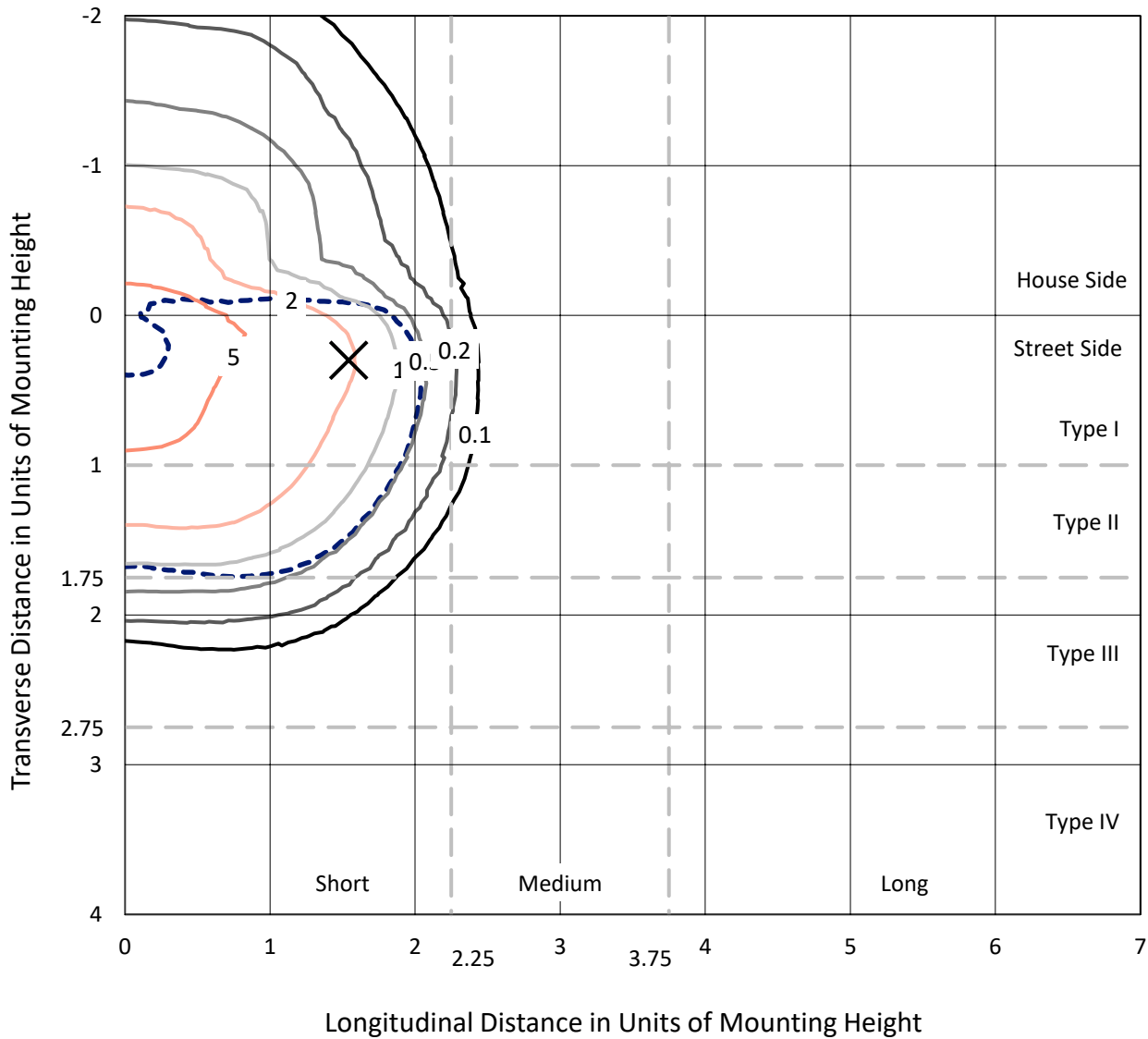
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

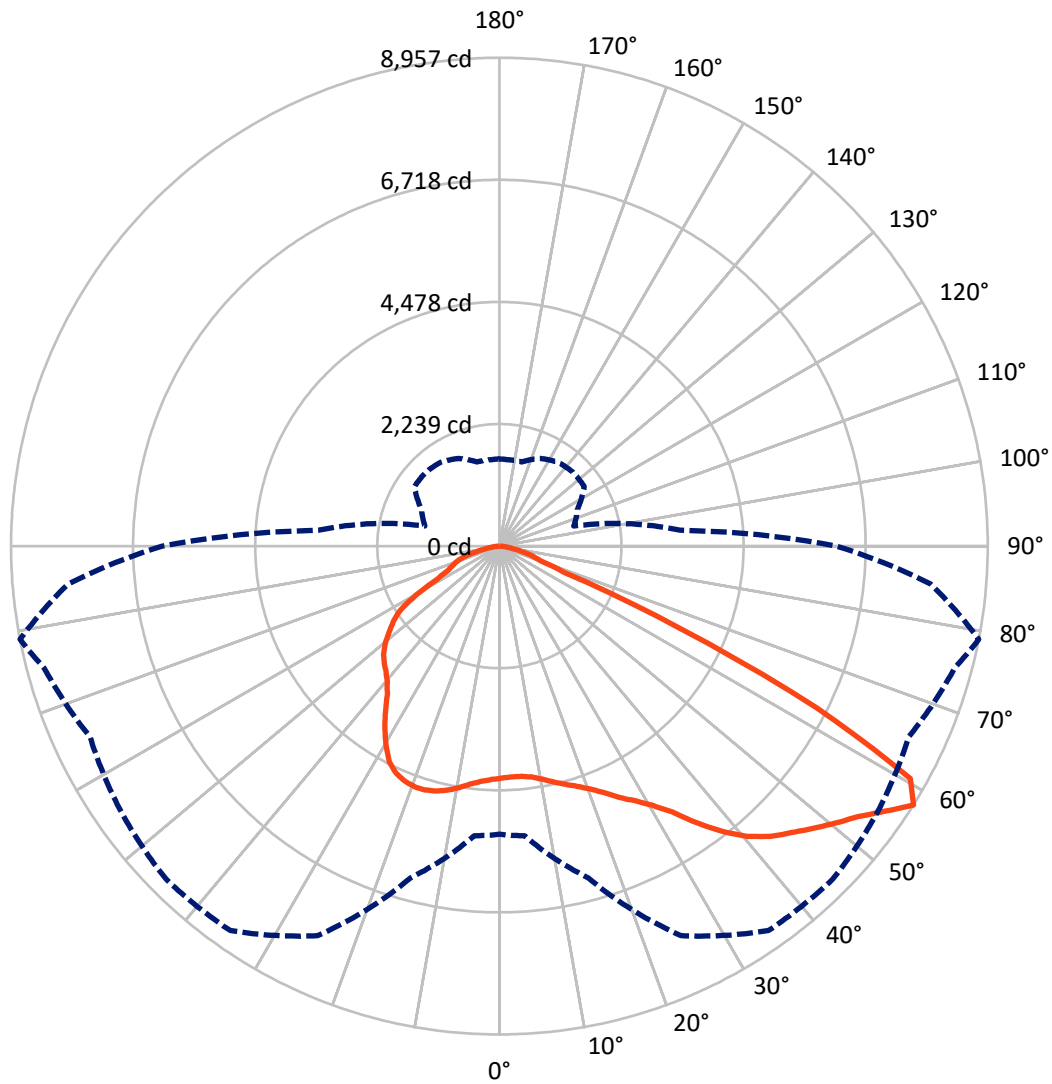
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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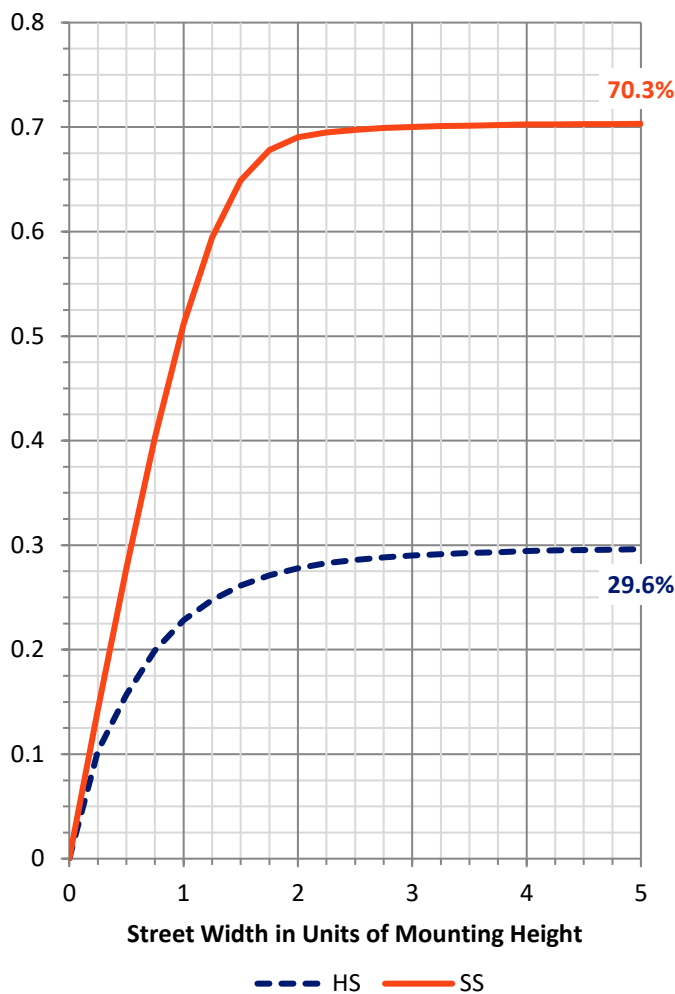
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5103.9	0.0	5103.9
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	12066.3	0.0	12066.3
	% Fixture	70.3	0.0	70.3
Total	Lumens	17170.2	0.0	17170.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.1	2.3
10°-20°	1095.1	6.4
20°-30°	1856.3	10.8
30°-40°	2841.2	16.5
40°-50°	3788.5	22.1
50°-60°	4375.5	25.5
60°-70°	2273.6	13.2
70°-80°	483.3	2.8
80°-90°	62.6	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°	17170.2	100.0
0°-180°	17170.2	100.0

Coefficient of Utilization



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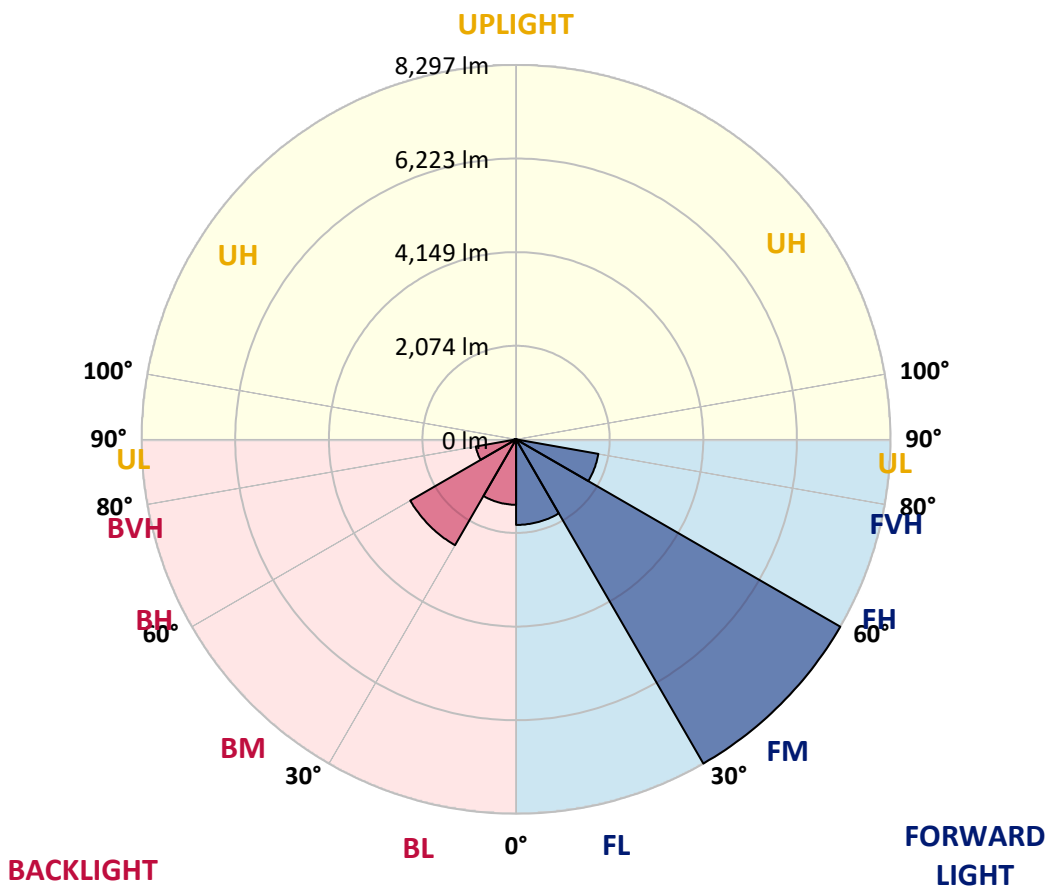
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1896.0	11.0			
FM (30°-60°)	8297.1	48.3			
FH (60°-80°)	1851.4	10.8			G2/5000
FVH (80°-90°)	21.8	0.1			G1/100
BL (0°-30°)	1449.5	8.4	B3/2500		
BM (30°-60°)	2708.1	15.8	B3/5000		
BH (60°-80°)	905.6	5.3	B2/1000		G2/1000
BVH (80°-90°)	40.8	0.2			G1/100
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°	55°	65°	75°	79°	85°
0°	4255.2	4255.2	4255.2	4255.2	4255.2	4255.2	4255.2	4255.2	4255.2	4255.2	4255.2
2.5°	4061.4	4053.0	4055.8	4067.1	4109.2	4140.1	4172.3	4201.8	4229.9	4238.3	4245.3
5°	3916.8	3901.4	3905.6	3923.9	3973.0	4024.9	4082.5	4152.7	4220.1	4242.5	4272.0
7.5°	3814.4	3811.5	3818.6	3846.6	3898.6	3947.7	4022.1	4121.8	4238.3	4276.2	4328.2
10°	3678.2	3672.6	3700.6	3758.2	3843.8	3922.5	4010.9	4128.8	4291.7	4347.8	4427.9
12.5°	3570.1	3567.3	3596.8	3676.8	3786.3	3911.2	4033.4	4165.3	4363.3	4440.5	4538.8
15°	3633.3	3620.6	3622.0	3678.2	3776.4	3923.9	4089.5	4231.3	4434.9	4533.1	4659.5
17.5°	3817.2	3794.7	3777.9	3787.7	3843.8	3996.9	4175.2	4319.8	4517.7	4632.8	4787.2
20°	4071.3	4058.6	4012.3	3981.4	3994.1	4128.8	4309.9	4444.7	4625.8	4755.0	4920.6
22.5°	4412.4	4381.5	4318.3	4269.2	4231.3	4336.6	4503.7	4620.2	4776.0	4910.8	5083.5
25°	4835.0	4790.1	4690.4	4613.2	4531.7	4639.8	4788.6	4877.1	4982.4	5107.3	5271.6
27.5°	5266.0	5228.1	5117.2	5013.3	4912.2	4979.6	5156.5	5207.0	5195.8	5287.0	5427.4
30°	5725.0	5677.3	5572.0	5459.7	5329.1	5372.7	5531.3	5556.6	5437.2	5513.1	5608.5
32.5°	6209.4	6163.1	6071.8	5941.2	5793.8	5810.7	5854.2	5878.1	5764.3	5807.9	5880.9
35°	6702.1	6658.6	6566.0	6436.8	6328.7	6226.2	6116.7	6212.2	6146.2	6230.4	6224.8
37.5°	7152.8	7109.3	7051.7	6952.0	6766.7	6564.6	6311.9	6429.8	6532.3	6639.0	6620.7
40°	7457.4	7428.0	7442.0	7426.5	7187.9	6787.8	6407.3	6536.5	6815.9	6998.4	6988.5
42.5°	7720.0	7690.5	7771.9	7830.9	7550.1	6994.2	6453.7	6577.2	6997.0	7281.9	7267.9
45°	7836.5	7828.1	7962.8	8149.5	7881.4	7213.2	6573.0	6661.4	7134.5	7499.5	7446.2
47.5°	7697.5	7727.0	7992.3	8308.2	8156.6	7472.9	6817.3	6839.7	7314.2	7735.4	7585.2
50°	7420.9	7485.5	7843.5	8312.4	8357.3	7766.3	7155.6	7099.4	7555.7	7986.7	7658.2
52.5°	7018.0	7085.4	7669.4	8280.1	8472.4	8106.0	7606.2	7526.2	7860.3	8238.0	7670.8
55°	6092.9	6184.1	7270.7	8207.1	8584.8	8414.9	8114.4	7951.6	8253.4	8583.3	7795.8
57.5°	5285.6	5333.4	6299.2	7882.8	8607.2	8642.3	8476.7	8282.9	8643.7	8956.8	7936.2
60°	3878.9	3890.2	4759.2	6522.4	7917.9	8510.3	8447.2	8159.4	8458.4	8657.8	7293.2
62.5°	2191.5	2192.9	2886.4	4353.4	5914.6	6936.6	6975.9	6721.8	6470.5	6529.5	5076.4
65°	822.7	899.9	1318.2	2139.5	3410.0	4095.1	4258.0	4316.9	3898.6	3638.9	2722.1
67.5°	550.3	568.6	769.3	1100.6	1517.6	1752.0	1959.8	1965.4	1437.6	1281.7	1072.6
70°	419.8	438.0	605.1	787.6	769.3	710.4	767.9	746.9	772.1	793.2	815.7
72.5°	313.1	331.3	468.9	555.9	461.9	454.9	515.2	572.8	626.1	648.6	683.7
75°	207.8	221.8	315.9	297.6	255.5	301.8	376.2	433.8	464.7	491.4	518.0
77.5°	132.0	141.8	168.5	136.2	141.8	176.9	219.0	270.9	300.4	327.1	341.1
80°	60.4	59.0	57.6	64.6	80.0	103.9	132.0	162.9	185.3	196.5	205.0
82.5°	23.9	26.7	29.5	35.1	43.5	56.2	74.4	95.5	113.7	116.5	123.5
85°	9.8	11.2	12.6	15.4	19.7	25.3	30.9	43.5	54.8	59.0	63.2
87.5°	0.0	0.0	0.0	0.0	1.4	2.8	4.2	7.0	12.6	14.0	15.4
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°	4255.2	4255.2	4255.2	4255.2	4255.2	4255.2	4255.2	4255.2	4255.2	4255.2	4255.2
2.5°	4283.3	4265.0	4295.9	4316.9	4336.6	4315.5	4308.5	4290.3	4287.5	4287.5	4297.3
5°	4322.6	4309.9	4342.2	4354.8	4353.4	4307.1	4279.0	4242.5	4224.3	4224.3	4227.1
7.5°	4392.8	4385.7	4404.0	4384.3	4339.4	4245.3	4152.7	4075.5	4023.5	3996.9	4005.3
10°	4509.3	4500.9	4485.4	4412.4	4283.3	4088.1	3898.6	3758.2	3674.0	3626.2	3629.0
12.5°	4623.0	4609.0	4554.2	4392.8	4127.4	3817.2	3568.7	3411.4	3318.8	3262.6	3250.0
15°	4747.9	4711.4	4593.5	4291.7	3873.3	3485.8	3226.1	3056.3	2956.6	2922.9	2921.5
17.5°	4867.3	4802.7	4589.3	4112.0	3568.7	3139.1	2878.0	2772.7	2755.8	2771.3	2775.5
20°	4988.0	4884.1	4543.0	3863.5	3206.5	2793.7	2659.0	2702.5	2765.7	2807.8	2817.6
22.5°	5112.9	4951.5	4437.7	3543.4	2824.6	2560.7	2616.8	2712.3	2790.9	2847.1	2852.7
25°	5253.3	5014.7	4280.4	3151.7	2518.6	2496.1	2607.0	2708.1	2792.3	2856.9	2868.1
27.5°	5333.4	5016.1	4060.0	2748.8	2378.2	2470.8	2583.1	2678.6	2762.8	2833.0	2845.7
30°	5412.0	4978.2	3710.5	2421.7	2337.5	2441.4	2542.4	2630.9	2710.9	2779.7	2795.1
32.5°	5522.9	4943.1	3307.6	2233.6	2313.6	2413.3	2496.1	2574.7	2636.5	2667.4	2675.8
35°	5660.5	4898.2	2879.4	2152.2	2298.2	2390.8	2463.8	2505.9	2425.9	2409.1	2427.3
37.5°	5852.8	4856.0	2452.6	2117.1	2288.3	2382.4	2447.0	2338.9	2240.6	2201.3	2215.3
40°	6060.6	4832.2	2163.4	2089.0	2292.5	2390.8	2376.8	2216.7	2074.9	1992.1	1989.3
42.5°	6237.5	4795.7	1978.1	2070.7	2303.8	2423.1	2281.3	2108.6	1898.1	1848.9	1850.3
45°	6356.8	4703.0	1879.8	2051.1	2313.6	2430.1	2236.4	1959.8	1809.6	1778.7	1777.3
47.5°	6405.9	4534.5	1816.6	2020.2	2312.2	2372.6	2145.1	1898.1	1747.8	1739.4	1745.0
50°	6373.6	4258.0	1752.0	1959.8	2278.5	2312.2	2039.8	1843.3	1705.7	1752.0	1785.7
52.5°	6254.3	3900.0	1674.8	1877.0	2218.1	2243.4	1986.5	1809.6	1674.8	1736.6	1763.3
55°	6223.4	3609.4	1576.6	1768.9	2128.3	2121.3	1930.3	1792.8	1653.8	1629.9	1634.1
57.5°	6182.7	3325.8	1413.7	1575.2	1900.9	1912.1	1877.0	1773.1	1599.0	1592.0	1599.0
60°	5371.3	2549.5	1260.7	1359.0	1561.1	1621.5	1816.6	1736.6	1510.6	1481.1	1479.7
62.5°	3508.3	1544.3	1121.7	1184.9	1271.9	1342.1	1656.6	1631.3	1413.7	1395.5	1408.1
65°	1886.8	1100.6	1020.6	1058.5	1106.3	1159.6	1373.0	1453.0	1277.5	1213.0	1214.4
67.5°	964.5	936.4	944.8	971.5	1008.0	1034.7	1107.7	1177.9	1089.4	1034.7	1033.3
70°	825.5	847.9	860.6	876.0	899.9	895.7	902.7	915.3	908.3	881.6	880.2
72.5°	703.3	738.4	741.3	744.1	752.5	732.8	720.2	699.1	700.5	704.7	706.2
75°	534.9	568.6	577.0	572.8	581.2	555.9	539.1	518.0	492.8	488.6	491.4
77.5°	348.2	374.8	387.5	384.7	388.9	369.2	360.8	338.3	308.9	297.6	297.6
80°	210.6	226.0	235.9	238.7	242.9	228.8	214.8	195.1	182.5	169.9	169.9
82.5°	127.8	137.6	144.6	144.6	148.8	133.4	122.1	108.1	102.5	91.3	91.3
85°	64.6	71.6	74.4	73.0	70.2	57.6	53.3	46.3	43.5	37.9	37.9
87.5°	15.4	19.7	19.7	14.0	14.0	7.0	4.2	1.4	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)