

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: P640866

Luminaire Tested: GWS-SA5E-760-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640866
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-SA5E-760-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33205.9 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

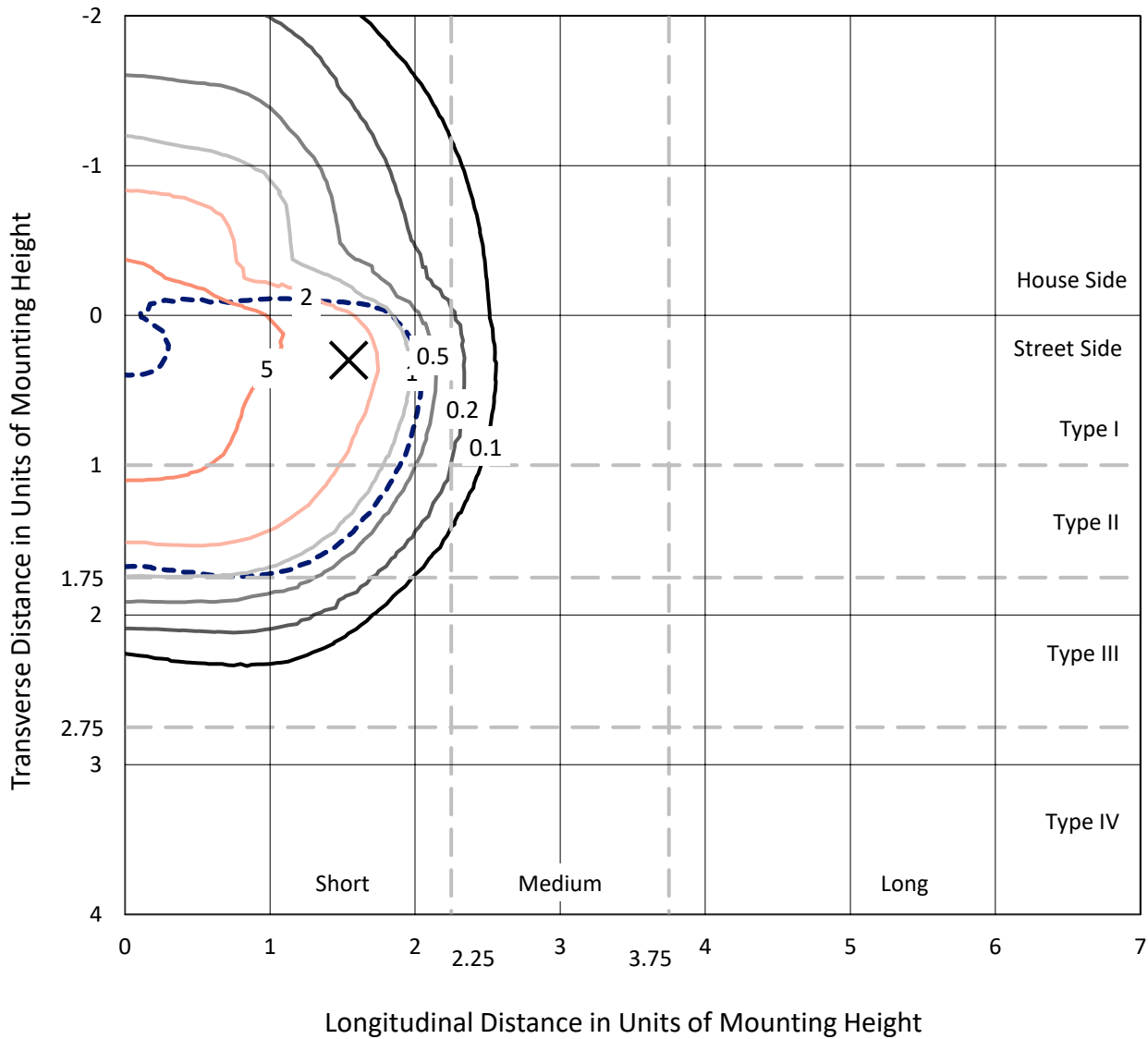
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

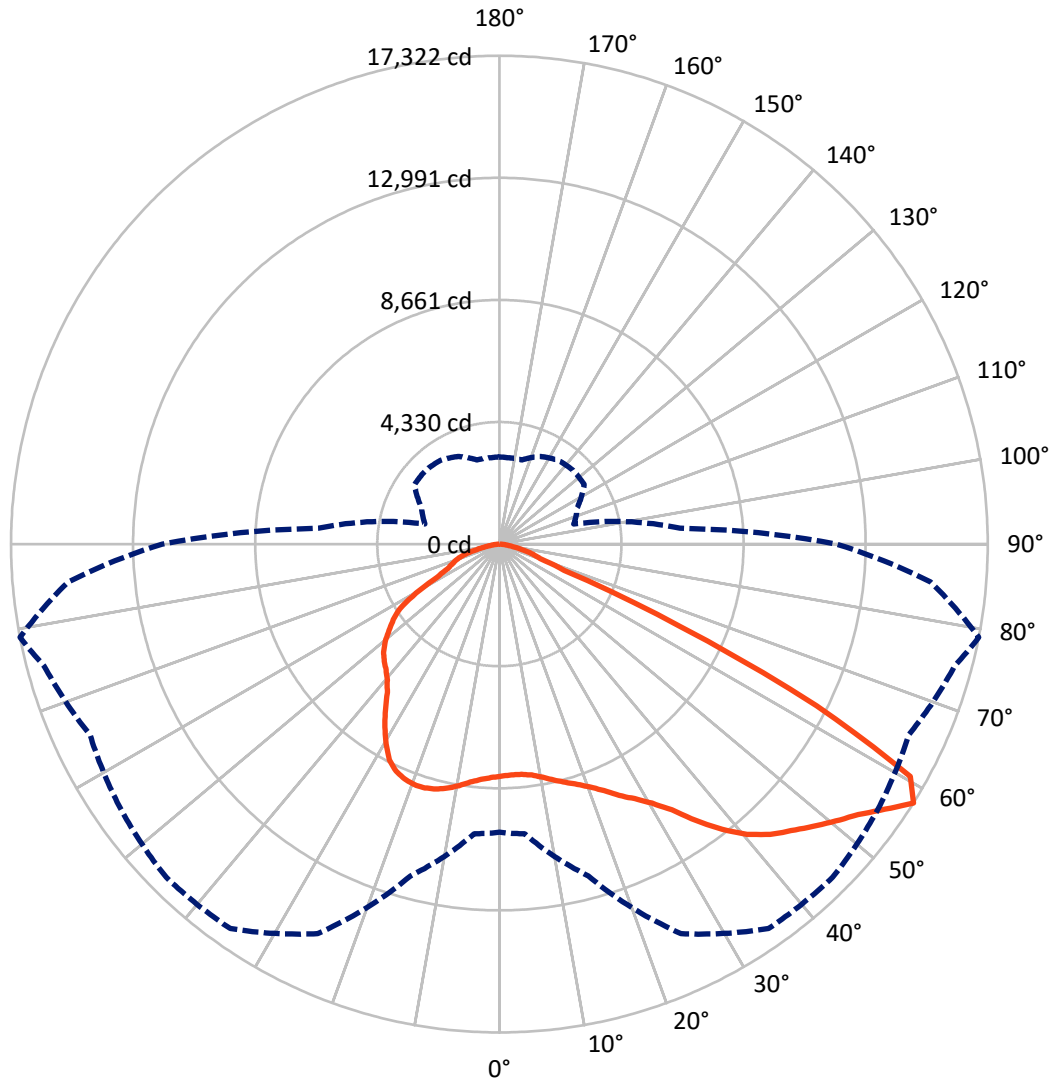
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.2 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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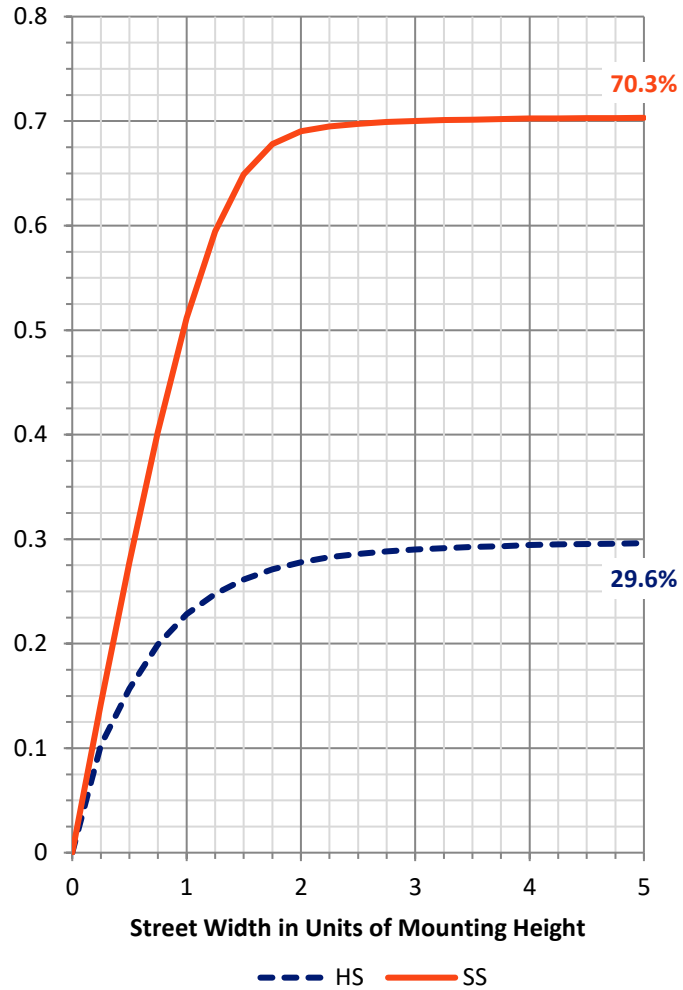
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9870.6	0.0	9870.6
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	23335.3	0.0	23335.3
	% Fixture	70.3	0.0	70.3
Total	Lumens	33205.9	0.0	33205.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	762.1	2.3
10°-20°	2117.9	6.4
20°-30°	3589.9	10.8
30°-40°	5494.8	16.5
40°-50°	7326.7	22.1
50°-60°	8461.8	25.5
60°-70°	4397.0	13.2
70°-80°	934.7	2.8
80°-90°	121.1	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°	33205.9	100.0
0°-180°	33205.9	100.0

Coefficient of Utilization



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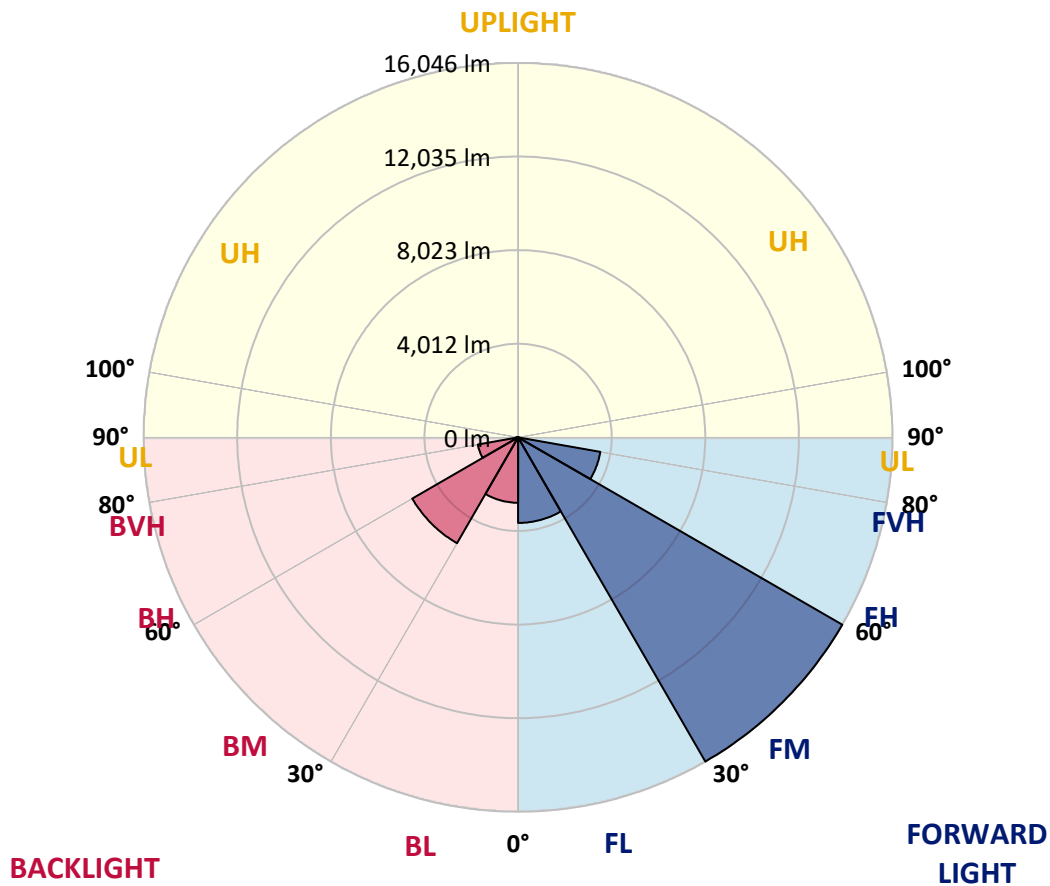
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3666.7	11.0			
FM (30°-60°)	16046.0	48.3			
FH (60°-80°)	3580.4	10.8			G2/5000
FVH (80°-90°)	42.2	0.1			G1/100
BL (0°-30°)	2803.1	8.4	B4/5000		
BM (30°-60°)	5237.3	15.8	B4/8500		
BH (60°-80°)	1751.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	78.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	8229.2	8229.2	8229.2	8229.2	8229.2	8229.2	8229.2	8229.2	8229.2	8229.2	8229.2
2.5°	7854.5	7838.2	7843.7	7865.4	7946.8	8006.6	8069.0	8126.0	8180.3	8196.6	8210.2
5°	7574.9	7545.0	7553.2	7588.4	7683.5	7783.9	7895.2	8031.0	8161.3	8204.8	8261.8
7.5°	7376.7	7371.2	7384.8	7439.1	7539.6	7634.6	7778.5	7971.3	8196.6	8269.9	8370.4
10°	7113.3	7102.5	7156.8	7268.1	7433.7	7585.7	7756.8	7984.8	8299.8	8408.4	8563.1
12.5°	6904.3	6898.8	6955.9	7110.6	7322.4	7564.0	7800.2	8055.4	8438.2	8587.6	8777.6
15°	7026.4	7002.0	7004.7	7113.3	7303.4	7588.4	7908.8	8183.0	8576.7	8766.8	9011.1
17.5°	7382.1	7338.7	7306.1	7325.1	7433.7	7729.6	8074.4	8354.1	8736.9	8959.5	9258.2
20°	7873.5	7849.1	7759.5	7699.8	7724.2	7984.8	8335.1	8595.7	8946.0	9195.7	9516.1
22.5°	8533.3	8473.5	8351.4	8256.3	8183.0	8386.7	8709.7	8935.1	9236.5	9497.1	9831.0
25°	9350.5	9263.6	9070.8	8921.5	8764.0	8973.1	9260.9	9431.9	9635.6	9877.2	10194.9
27.5°	10184.0	10110.7	9896.2	9695.3	9499.8	9630.1	9972.2	10070.0	10048.2	10224.7	10496.2
30°	11071.8	10979.5	10775.9	10558.7	10306.2	10390.3	10697.1	10746.0	10515.2	10661.8	10846.5
32.5°	12008.5	11918.9	11742.4	11489.9	11204.8	11237.4	11321.6	11367.7	11147.8	11232.0	11373.2
35°	12961.4	12877.3	12698.1	12448.3	12239.3	12041.1	11829.3	12013.9	11886.3	12049.2	12038.3
37.5°	13833.0	13748.8	13637.5	13444.7	13086.3	12695.4	12206.7	12434.7	12632.9	12839.3	12804.0
40°	14422.1	14365.1	14392.3	14362.4	13900.8	13127.1	12391.3	12641.1	13181.4	13534.3	13515.3
42.5°	14929.8	14872.8	15030.3	15144.3	14601.3	13526.2	12480.9	12719.8	13531.6	14082.7	14055.6
45°	15155.2	15138.9	15399.5	15760.6	15242.1	13949.7	12711.7	12882.7	13797.7	14503.6	14400.4
47.5°	14886.4	14943.4	15456.5	16067.4	15774.2	14452.0	13184.1	13227.5	14145.2	14959.7	14669.2
50°	14351.5	14476.4	15168.8	16075.6	16162.4	15019.4	13838.4	13729.8	14612.2	15445.7	14810.4
52.5°	13572.3	13702.6	14832.1	16013.1	16385.1	15676.5	14709.9	14555.2	15201.3	15931.7	14834.8
55°	11783.1	11959.6	14061.0	15871.9	16602.3	16273.8	15692.7	15377.8	15961.5	16599.6	15076.4
57.5°	10222.0	10314.3	12182.2	15244.8	16645.7	16713.6	16393.2	16018.5	16716.3	17321.8	15347.9
60°	7501.6	7523.3	9203.9	12613.9	15312.6	16458.4	16336.2	15779.6	16357.9	16743.5	14104.5
62.5°	4238.1	4240.8	5582.1	8419.2	11438.3	13414.9	13490.9	12999.5	12513.5	12627.5	9817.5
65°	1591.0	1740.3	2549.4	4137.7	6594.8	7919.7	8234.6	8348.7	7539.6	7037.3	5264.4
67.5°	1064.3	1099.6	1487.8	2128.6	2934.9	3388.3	3790.2	3801.0	2780.2	2478.8	2074.3
70°	811.8	847.1	1170.2	1523.1	1487.8	1373.8	1485.1	1444.4	1493.3	1534.0	1577.4
72.5°	605.4	640.7	906.8	1075.1	893.2	879.7	996.4	1107.7	1210.9	1254.3	1322.2
75°	401.8	429.0	610.9	575.6	494.1	583.7	727.6	838.9	898.7	950.3	1001.8
77.5°	255.2	274.2	325.8	263.4	274.2	342.1	423.5	524.0	581.0	632.6	659.7
80°	116.7	114.0	111.3	124.9	154.8	200.9	255.2	314.9	358.4	380.1	396.4
82.5°	46.2	51.6	57.0	67.9	84.2	108.6	143.9	184.6	219.9	225.3	238.9
85°	19.0	21.7	24.4	29.9	38.0	48.9	59.7	84.2	105.9	114.0	122.2
87.5°	0.0	0.0	0.0	0.0	2.7	5.4	8.1	13.6	24.4	27.2	29.9
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°	8229.2	8229.2	8229.2	8229.2	8229.2	8229.2	8229.2	8229.2	8229.2	8229.2	8229.2
2.5°	8283.5	8248.2	8307.9	8348.7	8386.7	8345.9	8332.4	8297.1	8291.6	8291.6	8310.6
5°	8359.5	8335.1	8397.5	8422.0	8419.2	8329.6	8275.3	8204.8	8169.5	8169.5	8174.9
7.5°	8495.3	8481.7	8517.0	8479.0	8392.1	8210.2	8031.0	7881.7	7781.2	7729.6	7745.9
10°	8720.6	8704.3	8674.5	8533.3	8283.5	7906.1	7539.6	7268.1	7105.2	7012.9	7018.3
12.5°	8940.5	8913.4	8807.5	8495.3	7982.1	7382.1	6901.6	6597.5	6418.3	6309.7	6285.2
15°	9182.2	9111.6	8883.5	8299.8	7490.7	6741.4	6239.1	5910.6	5717.8	5652.6	5649.9
17.5°	9412.9	9288.0	8875.4	7952.3	6901.6	6070.8	5565.8	5362.1	5329.6	5359.4	5367.6
20°	9646.4	9445.5	8785.8	7471.7	6201.1	5402.9	5142.2	5226.4	5348.6	5430.0	5449.0
22.5°	9888.1	9575.8	8582.1	6852.7	5462.6	4952.2	5060.8	5245.4	5397.4	5506.0	5516.9
25°	10159.6	9698.0	8278.1	6095.2	4870.7	4827.3	5041.8	5237.3	5400.2	5525.0	5546.8
27.5°	10314.3	9700.7	7851.8	5316.0	4599.2	4778.4	4995.6	5180.2	5343.1	5478.9	5503.3
30°	10466.4	9627.4	7175.8	4683.4	4520.5	4721.4	4916.9	5087.9	5242.7	5375.7	5405.6
32.5°	10680.8	9559.5	6396.6	4319.6	4474.3	4667.1	4827.3	4979.3	5098.8	5158.5	5174.8
35°	10946.9	9472.7	5568.5	4162.1	4444.5	4623.7	4764.8	4846.3	4691.5	4659.0	4694.2
37.5°	11318.9	9391.2	4743.1	4094.2	4425.5	4607.4	4732.3	4523.2	4333.2	4257.1	4284.3
40°	11720.7	9345.1	4183.8	4039.9	4433.6	4623.7	4596.5	4287.0	4012.8	3852.6	3847.2
42.5°	12062.8	9274.5	3825.4	4004.6	4455.3	4686.1	4411.9	4077.9	3670.7	3575.7	3578.4
45°	12293.6	9095.3	3635.4	3966.6	4474.3	4699.7	4325.0	3790.2	3499.6	3439.9	3437.2
47.5°	12388.6	8769.5	3513.2	3906.9	4471.6	4588.4	4148.5	3670.7	3380.2	3363.9	3374.8
50°	12326.1	8234.6	3388.3	3790.2	4406.5	4471.6	3944.9	3564.8	3298.7	3388.3	3453.5
52.5°	12095.4	7542.3	3239.0	3630.0	4289.7	4338.6	3841.7	3499.6	3239.0	3358.5	3410.1
55°	12035.6	6980.3	3049.0	3420.9	4116.0	4102.4	3733.1	3467.1	3198.3	3152.1	3160.3
57.5°	11956.9	6431.9	2734.0	3046.2	3676.1	3697.8	3630.0	3429.1	3092.4	3078.8	3092.4
60°	10387.6	4930.5	2438.1	2628.1	3019.1	3135.8	3513.2	3358.5	2921.3	2864.3	2861.6
62.5°	6784.8	2986.5	2169.3	2291.5	2459.8	2595.5	3203.7	3154.8	2734.0	2698.7	2723.2
65°	3649.0	2128.6	1973.8	2047.1	2139.4	2242.6	2655.3	2810.0	2470.7	2345.8	2348.5
67.5°	1865.2	1810.9	1827.2	1878.8	1949.4	2001.0	2142.1	2277.9	2106.8	2001.0	1998.2
70°	1596.4	1639.9	1664.3	1694.2	1740.3	1732.2	1745.8	1770.2	1756.6	1705.0	1702.3
72.5°	1360.2	1428.1	1433.5	1439.0	1455.2	1417.2	1392.8	1352.1	1354.8	1362.9	1365.6
75°	1034.4	1099.6	1115.9	1107.7	1124.0	1075.1	1042.6	1001.8	953.0	944.8	950.3
77.5°	673.3	724.9	749.3	743.9	752.1	714.0	697.8	654.3	597.3	575.6	575.6
80°	407.3	437.1	456.1	461.6	469.7	442.5	415.4	377.4	353.0	328.5	328.5
82.5°	247.1	266.1	279.6	279.6	287.8	257.9	236.2	209.1	198.2	176.5	176.5
85°	124.9	138.5	143.9	141.2	135.8	111.3	103.2	89.6	84.2	73.3	73.3
87.5°	29.9	38.0	38.0	27.2	27.2	13.6	8.1	2.7	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)