

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: P640854

Luminaire Tested: GWS-SA5E-760-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640854
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-760-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31576.9 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

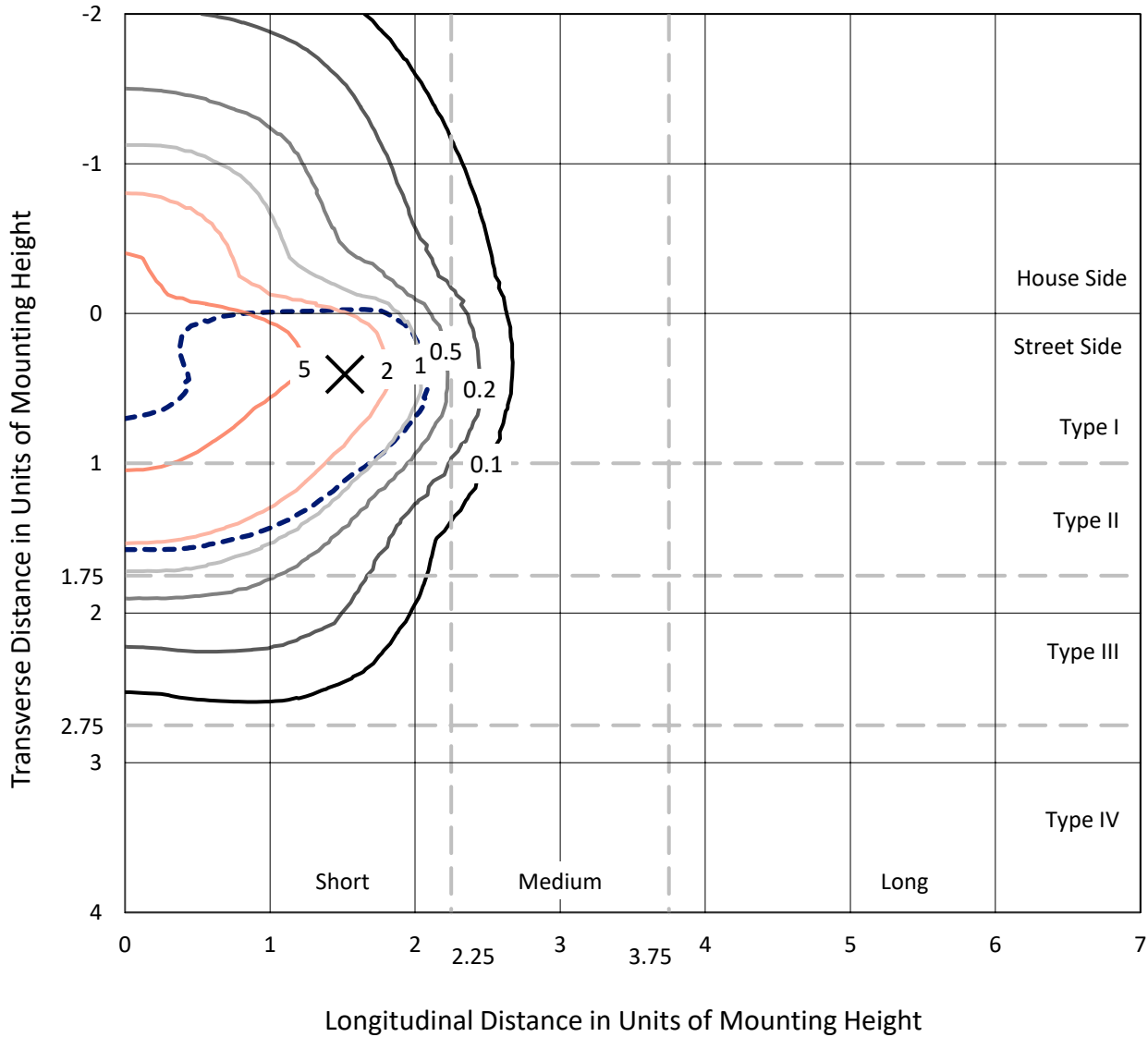
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

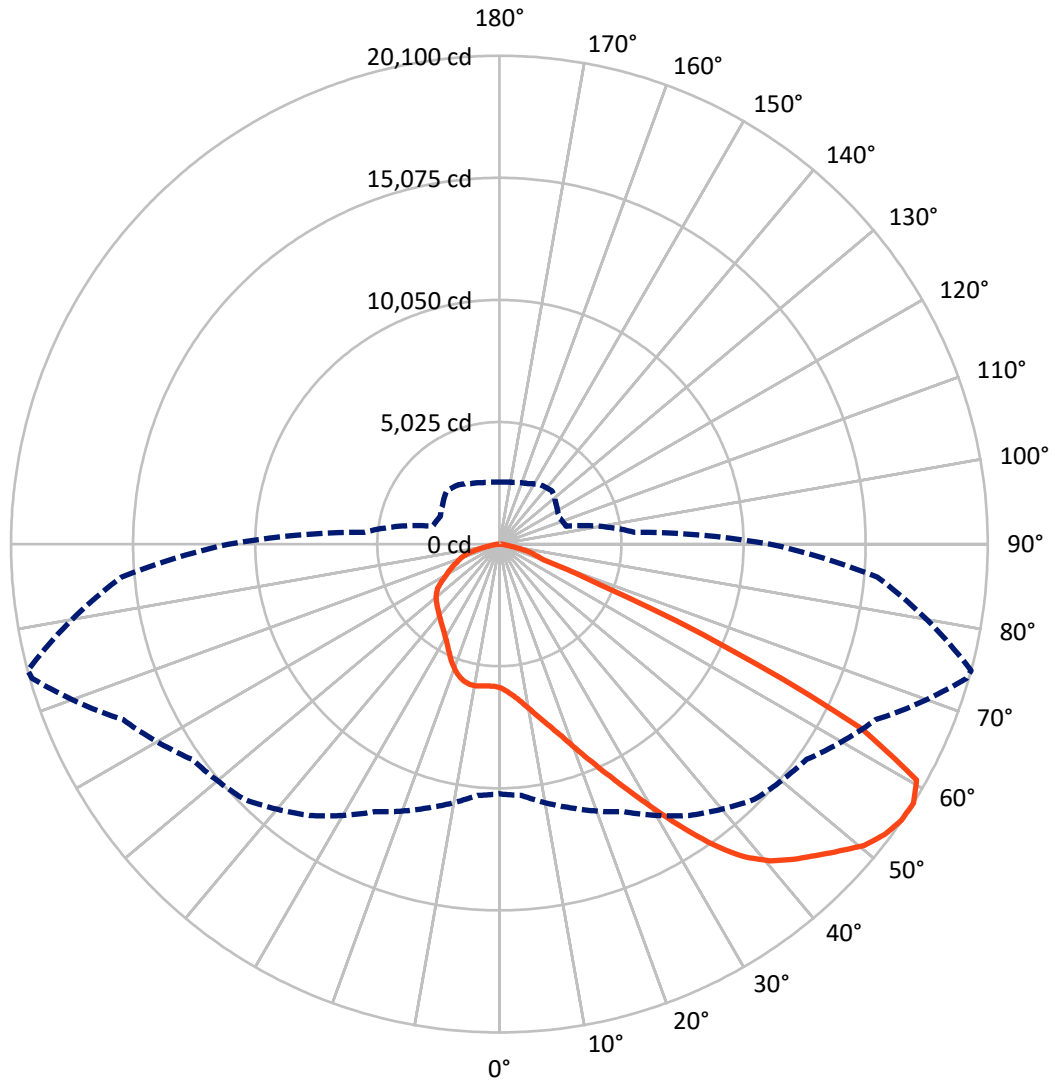
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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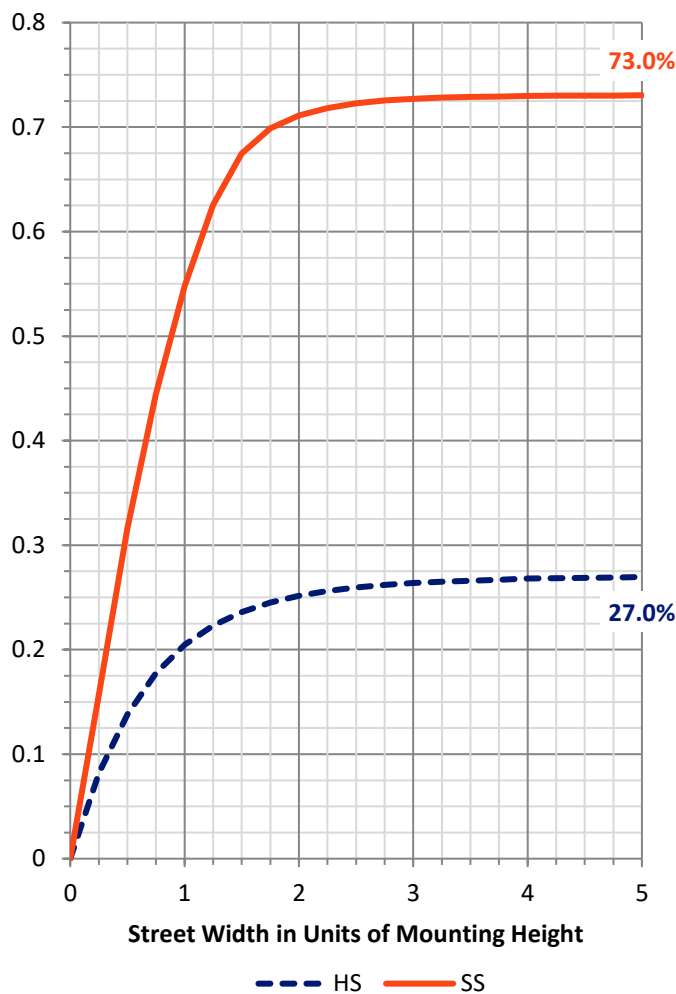
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8542.2	0.0	8542.2
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	23034.7	0.0	23034.7
	% Fixture	72.9	0.0	72.9
Total	Lumens	31576.9	0.0	31576.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	591.8	1.9
10°-20°	1884.1	6.0
20°-30°	3341.4	10.6
30°-40°	5115.0	16.2
40°-50°	7122.3	22.6
50°-60°	8160.7	25.8
60°-70°	4193.1	13.3
70°-80°	1055.7	3.3
80°-90°	112.9	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°	31576.9	100.0
0°-180°	31576.9	100.0

Coefficient of Utilization



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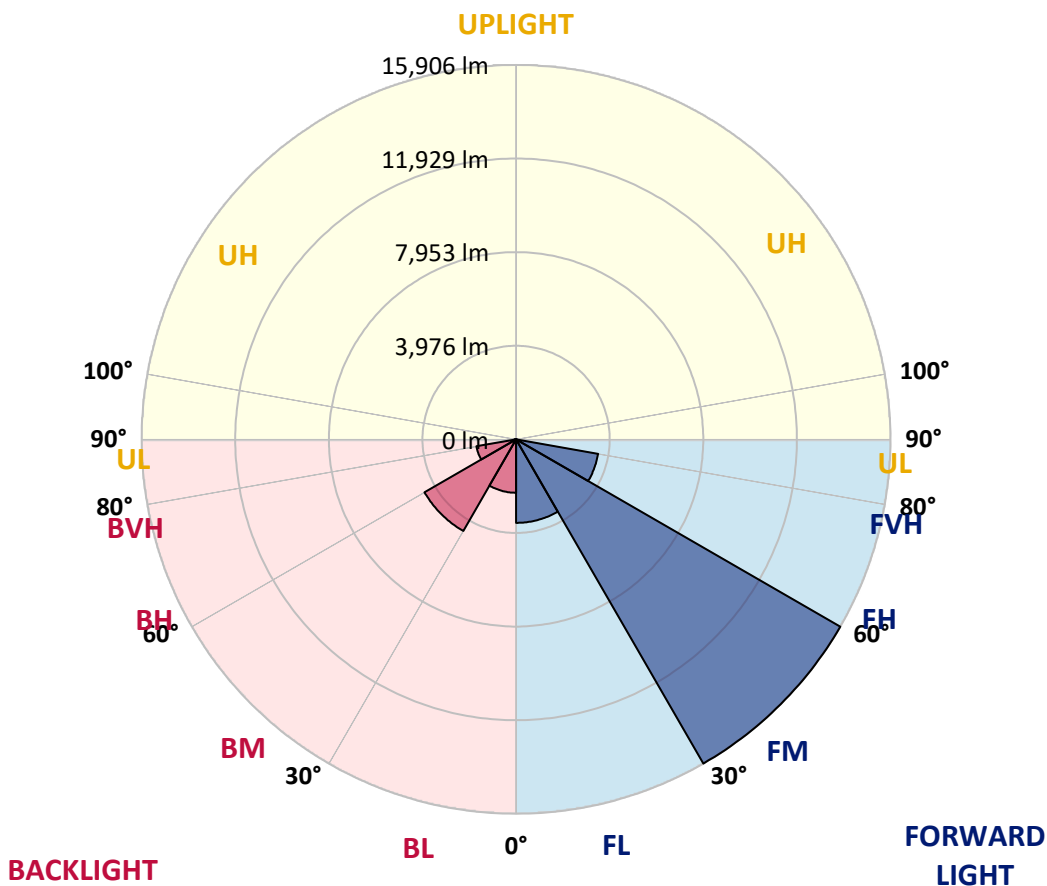
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3547.9	11.2			
FM (30°-60°)	15905.6	50.4			
FH (60°-80°)	3539.4	11.2			G2/5000
FVH (80°-90°)	41.8	0.1			G1/100
BL (0°-30°)	2269.3	7.2	B3/2500		
BM (30°-60°)	4492.4	14.2	B3/5000		
BH (60°-80°)	1709.3	5.4	B3/2500		G3/2500
BVH (80°-90°)	71.1	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	5913.6	5913.6	5913.6	5913.6	5913.6	5913.6	5913.6	5913.6	5913.6	5913.6	5913.6
2.5°	6353.4	6369.7	6353.4	6380.6	6326.3	6301.9	6242.1	6152.5	6081.9	6071.1	5992.3
5°	6847.6	6882.9	6861.2	6850.3	6777.0	6722.7	6633.1	6453.9	6307.3	6285.6	6130.8
7.5°	7165.3	7189.7	7189.7	7197.9	7170.7	7108.3	7013.2	6801.4	6595.1	6562.5	6329.0
10°	7271.2	7290.2	7325.5	7393.4	7447.7	7466.7	7404.2	7200.6	6948.1	6915.5	6589.7
12.5°	7295.6	7317.3	7371.6	7496.5	7645.9	7781.6	7792.5	7643.1	7360.8	7325.5	6891.0
15°	7341.8	7363.5	7436.8	7591.6	7811.5	8072.1	8232.3	8129.2	7816.9	7778.9	7233.2
17.5°	7336.3	7360.8	7469.4	7675.7	7971.7	8349.1	8658.6	8702.1	8379.0	8313.8	7621.4
20°	7322.8	7344.5	7461.2	7713.7	8080.3	8598.9	9158.2	9383.6	9036.0	8976.3	8074.9
22.5°	7431.4	7455.8	7545.4	7754.5	8137.3	8791.7	9619.8	10162.8	9815.3	9731.1	8596.2
25°	7675.7	7711.0	7765.3	7909.2	8240.5	8962.7	10092.2	11045.2	10689.5	10589.1	9163.6
27.5°	8053.1	8096.6	8172.6	8240.5	8471.3	9179.9	10561.9	12033.5	11677.9	11572.0	9763.7
30°	8514.7	8571.7	8669.5	8715.6	8873.1	9500.3	11072.4	13051.7	12845.4	12698.8	10439.7
32.5°	9152.8	9231.5	9323.8	9337.4	9432.4	9986.3	11577.4	14061.8	14059.0	13955.9	11208.1
35°	9983.6	10067.8	10086.8	10105.8	10151.9	10654.2	12188.3	14982.2	15337.9	15218.4	12044.4
37.5°	10890.5	11012.6	11042.5	10958.3	11023.5	11457.9	12875.2	15720.7	16451.1	16323.5	12853.5
40°	11859.8	11908.6	11990.1	11857.1	11938.5	12378.4	13548.6	16193.2	17281.9	17146.2	13491.6
42.5°	12554.9	12644.5	12766.6	12717.8	12763.9	13165.8	14021.0	16421.2	17873.8	17738.1	13950.4
45°	13309.7	13336.8	13415.6	13404.7	13431.8	13806.5	14360.4	16521.7	18403.3	18281.1	14341.4
47.5°	13966.7	14007.5	14059.0	13999.3	13939.6	14183.9	14637.4	16608.6	19014.2	18867.6	14751.4
50°	14599.4	14634.7	14697.1	14523.3	14300.7	14363.1	14773.1	16728.0	19587.1	19483.9	15074.5
52.5°	14716.1	14754.1	15047.4	15082.7	14797.6	14577.6	15012.1	16991.4	19923.8	19858.6	15191.3
55°	13247.2	13315.1	13898.8	14569.5	15272.7	15202.1	15394.9	17129.9	20056.8	20073.1	15400.3
57.5°	10282.3	10380.0	11232.6	12153.0	13632.8	14857.3	15443.8	17094.6	20010.7	20100.3	15614.8
60°	6744.4	6801.4	7811.5	8843.2	10377.3	12071.6	13822.8	16459.2	19600.7	19728.3	15560.5
62.5°	4072.7	4137.9	4949.7	5731.7	6635.8	7768.0	9375.4	13228.2	16429.4	16714.5	12462.5
65°	2842.8	2929.6	3641.0	4284.5	4596.7	4363.2	4748.8	7387.9	10236.1	10355.6	7616.0
67.5°	2060.8	2120.5	2704.3	3470.0	3814.8	3081.7	2348.6	3271.8	4458.3	4501.7	3141.4
70°	1349.4	1417.3	1946.8	2641.8	3114.3	2497.9	1756.7	1770.3	1876.2	1897.9	1824.6
72.5°	741.2	782.0	1202.8	1754.0	1840.9	1493.3	1371.2	1471.6	1544.9	1544.9	1563.9
75°	382.8	418.1	491.4	578.3	697.8	817.3	988.3	1137.6	1216.4	1221.8	1213.7
77.5°	195.5	209.1	263.4	285.1	312.2	363.8	472.4	605.5	676.1	703.2	697.8
80°	92.3	97.7	111.3	130.3	160.2	203.6	255.2	304.1	347.5	353.0	382.8
82.5°	48.9	54.3	59.7	70.6	86.9	108.6	149.3	179.2	206.4	211.8	236.2
85°	19.0	21.7	24.4	27.2	38.0	46.2	62.4	84.2	103.2	103.2	122.2
87.5°	0.0	0.0	0.0	0.0	2.7	5.4	10.9	13.6	19.0	19.0	32.6
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°	5913.6	5913.6	5913.6	5913.6	5913.6	5913.6	5913.6	5913.6	5913.6	5913.6	5913.6
2.5°	5973.3	5894.6	5859.3	5802.3	5756.1	5704.5	5663.8	5633.9	5614.9	5604.1	5593.2
5°	6071.1	5951.6	5856.6	5742.5	5663.8	5587.8	5525.3	5481.9	5460.2	5443.9	5433.0
7.5°	6223.1	6062.9	5883.7	5707.2	5568.8	5446.6	5367.9	5321.7	5291.8	5281.0	5272.8
10°	6432.2	6209.5	5913.6	5633.9	5427.6	5294.5	5240.2	5218.5	5221.2	5215.8	5213.1
12.5°	6668.4	6364.3	5905.4	5503.6	5275.5	5196.8	5199.5	5234.8	5275.5	5286.4	5289.1
15°	6923.6	6516.4	5826.7	5335.3	5156.1	5164.2	5234.8	5319.0	5395.0	5424.9	5430.3
17.5°	7200.6	6644.0	5682.8	5150.6	5058.3	5145.2	5275.5	5414.0	5525.3	5574.2	5587.8
20°	7510.1	6752.6	5479.2	4968.7	4966.0	5109.9	5300.0	5481.9	5623.1	5688.2	5699.1
22.5°	7838.6	6820.5	5229.4	4800.4	4871.0	5063.8	5281.0	5471.0	5620.4	5685.5	5699.1
25°	8169.9	6842.2	4955.1	4645.6	4773.2	4990.4	5188.7	5340.7	5481.9	5538.9	5549.8
27.5°	8479.4	6779.7	4694.5	4512.6	4683.6	4881.8	5014.9	5096.3	5194.1	5237.5	5245.7
30°	8794.4	6654.8	4474.6	4406.7	4583.2	4732.5	4792.2	4797.7	4835.7	4835.7	4841.1
32.5°	9112.0	6470.2	4281.8	4303.5	4458.3	4556.0	4564.2	4501.7	4455.6	4379.5	4376.8
35°	9478.6	6282.9	4124.3	4186.8	4311.7	4371.4	4347.0	4227.5	4116.2	3991.3	3985.8
37.5°	9818.0	6090.1	3991.3	4067.3	4146.0	4189.5	4132.5	3988.6	3896.2	3768.6	3749.6
40°	10097.6	5916.3	3863.7	3942.4	3980.4	4018.4	3926.1	3809.4	3822.9	3752.3	3749.6
42.5°	10260.5	5748.0	3744.2	3803.9	3828.4	3855.5	3774.1	3687.2	3760.5	3706.2	3708.9
45°	10380.0	5601.4	3635.6	3657.3	3717.0	3757.8	3681.7	3584.0	3600.3	3391.2	3342.3
47.5°	10515.8	5519.9	3532.4	3510.7	3616.6	3687.2	3570.4	3429.2	3331.5	3125.1	3106.1
50°	10659.7	5490.0	3423.8	3364.1	3491.7	3559.6	3423.8	3247.3	3119.7	3008.4	2997.5
52.5°	10708.5	5487.3	3288.0	3187.6	3315.2	3410.2	3296.2	3117.0	2964.9	2856.3	2850.9
55°	10901.3	5566.1	3114.3	2945.9	3065.4	3260.9	3176.7	2918.8	2796.6	2747.7	2742.3
57.5°	11126.7	5579.6	2840.0	2682.6	2848.2	3079.0	2973.1	2750.4	2617.4	2557.7	2552.2
60°	11034.4	5245.7	2546.8	2481.6	2663.6	2907.9	2810.2	2617.4	2462.6	2405.6	2400.2
62.5°	8408.8	3703.5	2332.3	2307.9	2465.4	2660.8	2641.8	2440.9	2294.3	2253.6	2248.1
65°	5058.3	2601.1	2126.0	2123.2	2234.6	2421.9	2446.3	2283.4	2128.7	2071.7	2071.7
67.5°	2500.7	1990.2	1892.5	1878.9	1949.5	2082.5	2185.7	2052.7	1922.3	1868.0	1859.9
70°	1767.6	1754.0	1721.4	1683.4	1697.0	1751.3	1794.7	1683.4	1544.9	1490.6	1479.8
72.5°	1528.6	1531.3	1509.6	1479.8	1468.9	1430.9	1392.9	1311.4	1227.2	1170.2	1175.7
75°	1186.5	1192.0	1205.5	1194.7	1164.8	1124.1	1083.3	980.2	912.3	858.0	847.1
77.5°	692.4	719.5	763.0	752.1	757.5	700.5	684.2	583.8	521.3	483.3	475.2
80°	391.0	407.3	426.3	439.9	423.6	399.1	363.8	309.5	290.5	263.4	257.9
82.5°	236.2	252.5	260.7	271.5	266.1	233.5	206.4	171.1	154.8	141.2	138.5
85°	119.5	130.3	138.5	143.9	127.6	105.9	95.0	76.0	65.2	57.0	57.0
87.5°	29.9	32.6	38.0	32.6	29.9	13.6	10.9	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)