

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: P640799

Luminaire Tested: GWS-SA5E-750-U-T2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640799  
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-750-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) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

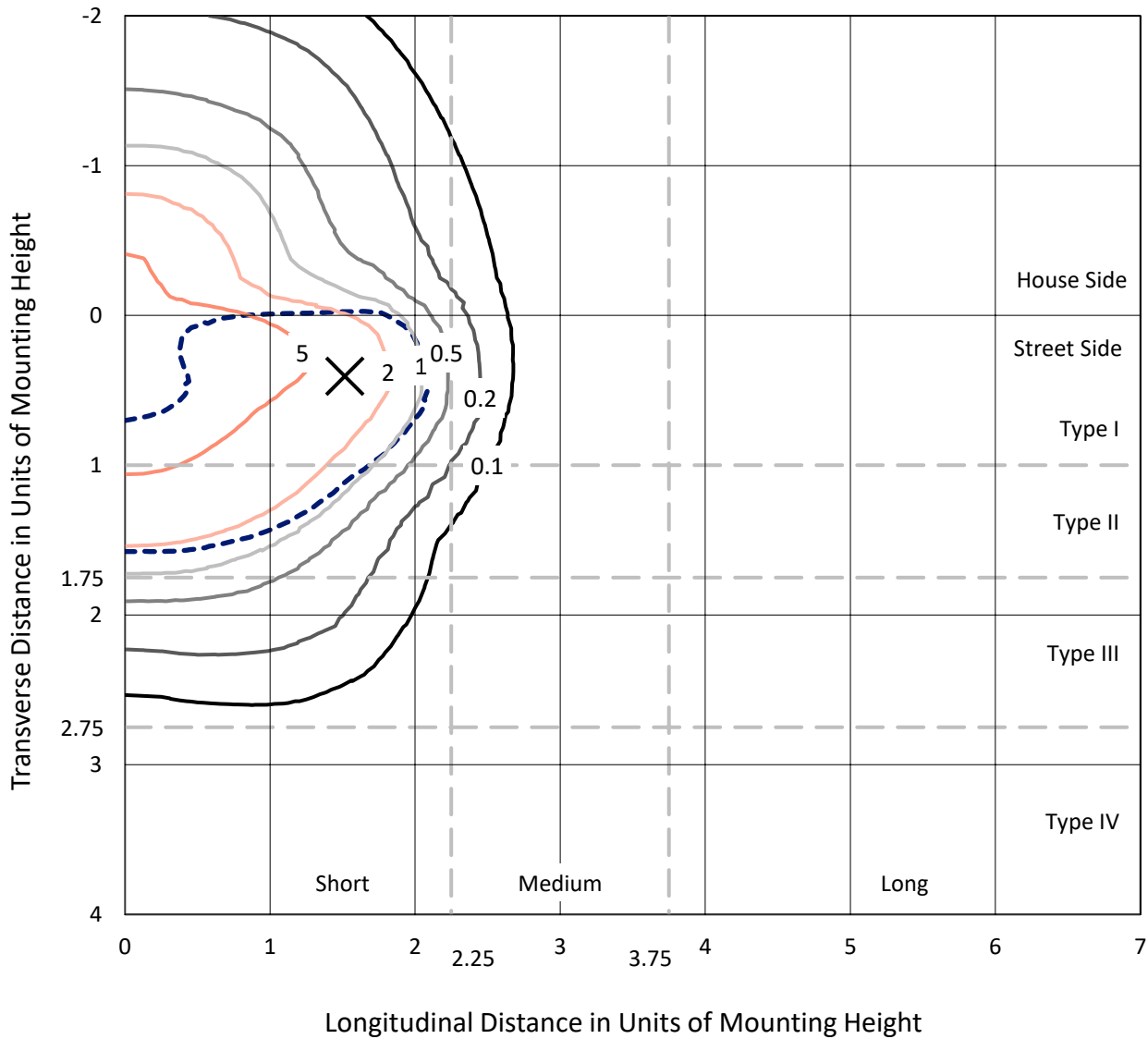
Lumens per Lamp: N/A  
Luminaire Lumens: 32015.6 lumens  
Efficiency: N/A  
Efficacy: 118.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

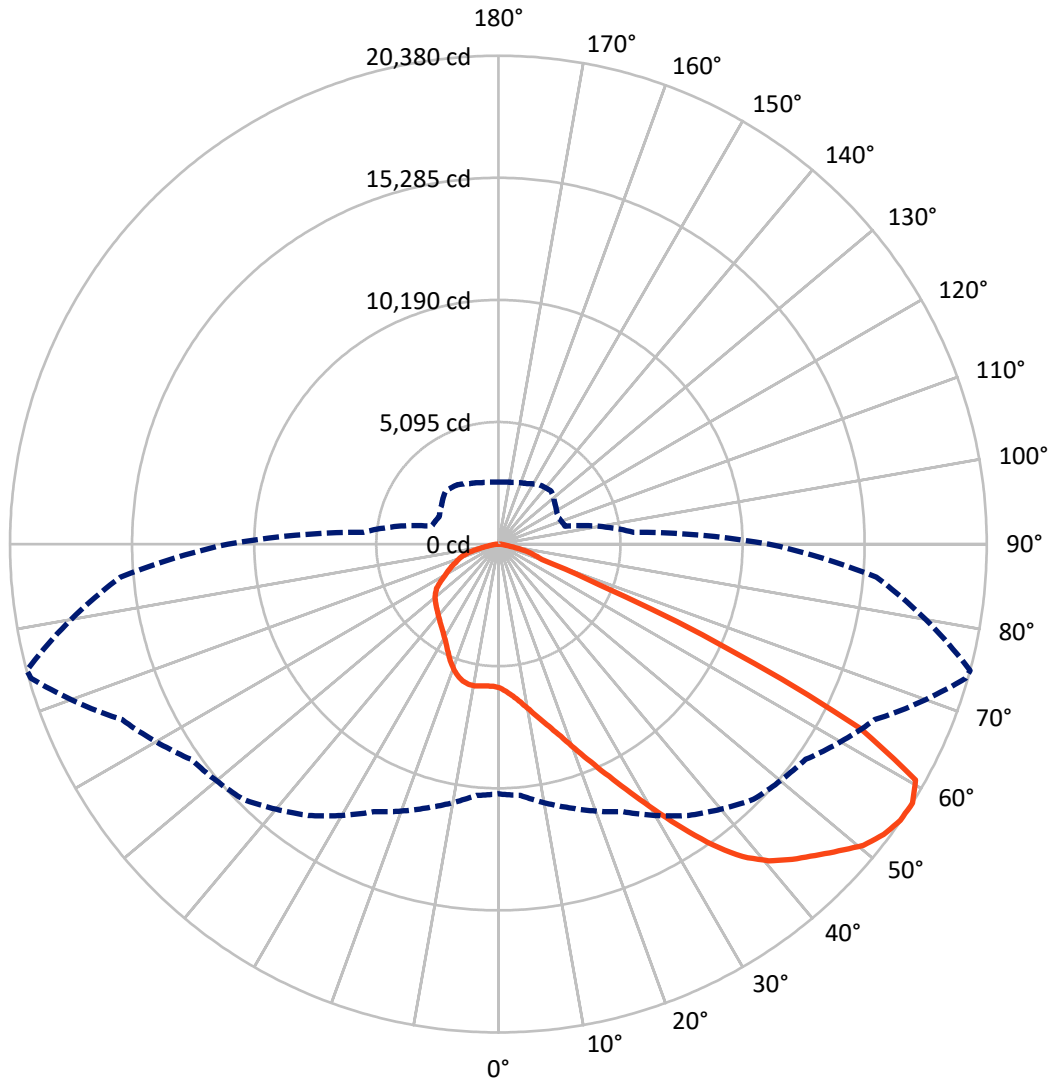
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.4 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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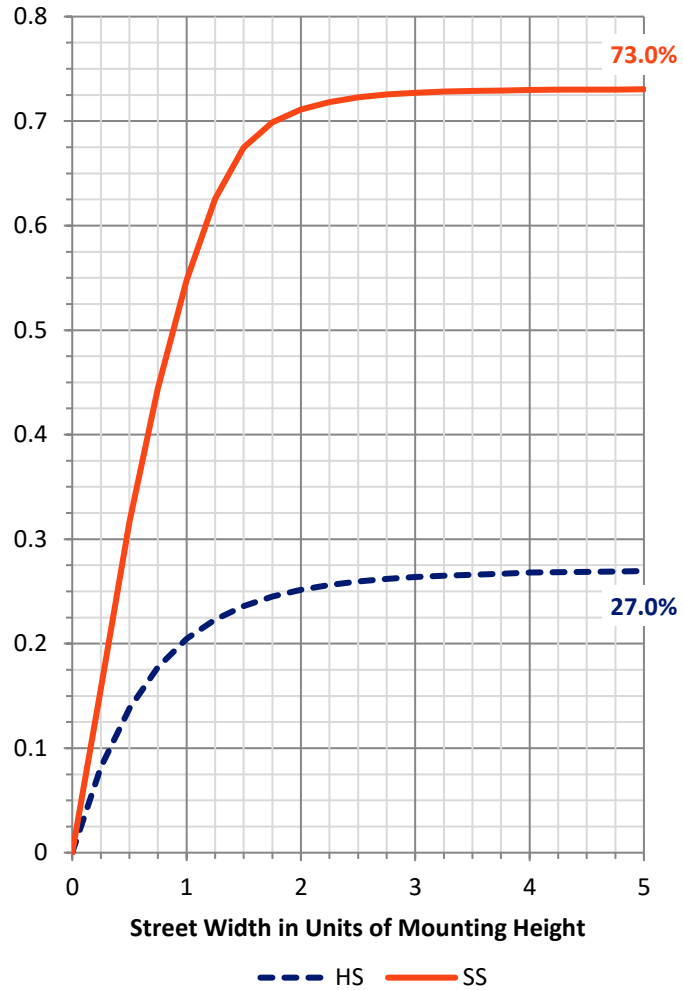
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8660.9	0.0	8660.9
	% Fixture	27.1	0.0	27.1
<b>Street Side</b>	Lumens	23354.7	0.0	23354.7
	% Fixture	72.9	0.0	72.9
<b>Total</b>	Lumens	32015.6	0.0	32015.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	600.0	1.9
10°-20°	1910.3	6.0
20°-30°	3387.8	10.6
30°-40°	5186.1	16.2
40°-50°	7221.2	22.6
50°-60°	8274.1	25.8
60°-70°	4251.4	13.3
70°-80°	1070.3	3.3
80°-90°	114.4	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°	32015.6	100.0
0°-180°	32015.6	100.0

**Coefficient of Utilization**



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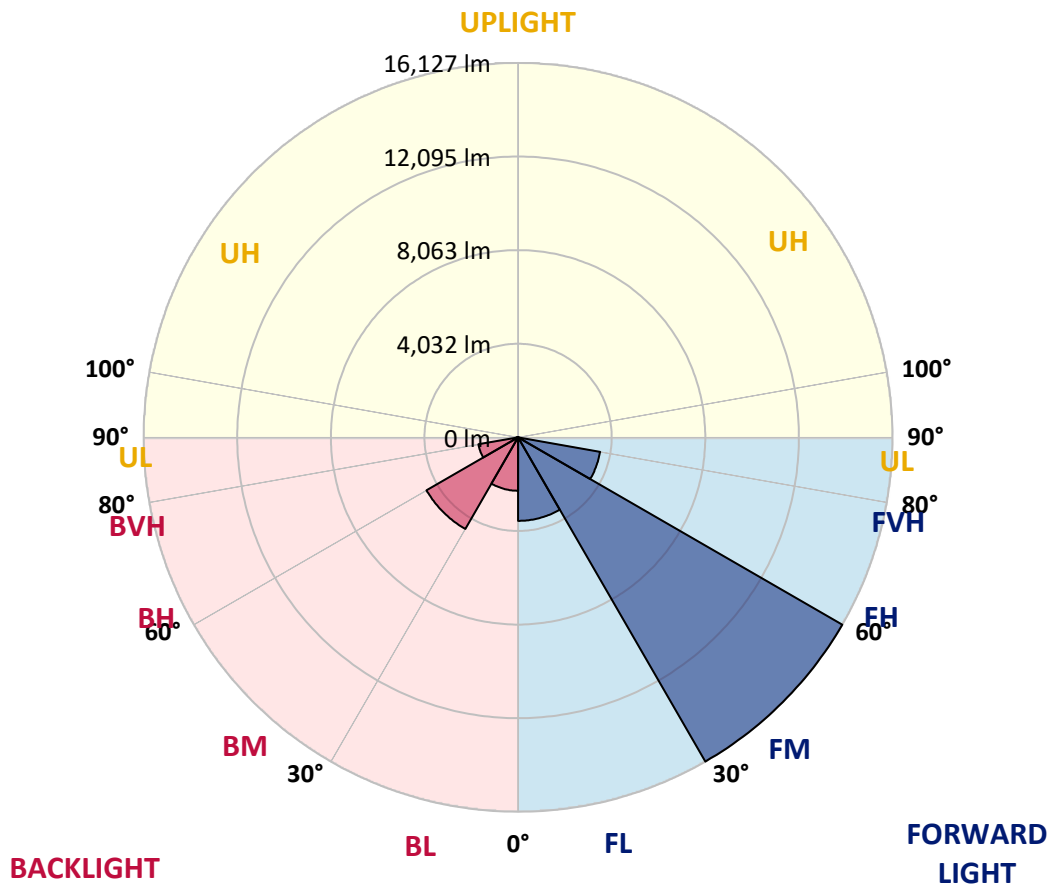
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3597.2	11.2			
FM (30°-60°)	16126.6	50.4			
FH (60°-80°)	3588.6	11.2			G2/5000
FVH (80°-90°)	42.3	0.1			G1/100
BL (0°-30°)	2300.9	7.2	B3/2500		
BM (30°-60°)	4554.8	14.2	B3/5000		
BH (60°-80°)	1733.1	5.4	B3/2500		G3/2500
BVH (80°-90°)	72.1	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°	5995.8	5995.8	5995.8	5995.8	5995.8	5995.8	5995.8	5995.8	5995.8	5995.8	5995.8
2.5°	6441.7	6458.2	6441.7	6469.2	6414.2	6389.4	6328.9	6238.0	6166.4	6155.4	6075.6
5°	6942.7	6978.5	6956.5	6945.5	6871.2	6816.1	6725.3	6543.6	6394.9	6372.9	6216.0
7.5°	7264.8	7289.6	7289.6	7297.9	7270.3	7207.0	7110.7	6895.9	6686.7	6653.7	6416.9
10°	7372.2	7391.5	7427.2	7496.1	7551.1	7570.4	7507.1	7300.6	7044.6	7011.6	6681.2
12.5°	7397.0	7419.0	7474.0	7600.7	7752.1	7889.7	7900.7	7749.3	7463.0	7427.2	6986.8
15°	7443.8	7465.8	7540.1	7697.0	7920.0	8184.3	8346.7	8242.1	7925.5	7887.0	7333.6
17.5°	7438.3	7463.0	7573.1	7782.4	8082.4	8465.1	8778.9	8823.0	8495.4	8429.3	7727.3
20°	7424.5	7446.5	7564.9	7820.9	8192.5	8718.3	9285.4	9513.9	9161.6	9101.0	8187.0
22.5°	7534.6	7559.4	7650.2	7862.2	8250.4	8913.8	9753.4	10304.0	9951.6	9866.3	8715.6
25°	7782.4	7818.2	7873.2	8019.1	8355.0	9087.2	10232.4	11198.7	10838.1	10736.2	9290.9
27.5°	8165.0	8209.1	8286.1	8355.0	8589.0	9307.5	10708.7	12200.7	11840.1	11732.7	9899.3
30°	8633.0	8690.8	8789.9	8836.7	8996.4	9632.3	11226.2	13233.1	13023.8	12875.2	10584.8
32.5°	9279.9	9359.8	9453.4	9467.1	9563.5	10125.1	11738.2	14257.1	14254.4	14149.8	11363.9
35°	10122.3	10207.6	10226.9	10246.2	10293.0	10802.3	12357.6	15190.3	15551.0	15429.8	12211.7
37.5°	11041.8	11165.6	11195.9	11110.6	11176.7	11617.1	13054.1	15939.1	16679.6	16550.3	13032.1
40°	12024.5	12074.1	12156.7	12021.8	12104.4	12550.3	13736.8	16418.1	17522.0	17384.4	13679.0
42.5°	12729.3	12820.1	12944.0	12894.4	12941.2	13348.7	14215.8	16649.4	18122.2	17984.5	14144.3
45°	13494.6	13522.1	13601.9	13590.9	13618.5	13998.3	14559.9	16751.2	18659.0	18535.1	14540.7
47.5°	14160.8	14202.1	14254.4	14193.8	14133.2	14381.0	14840.7	16839.3	19278.4	19129.7	14956.3
50°	14802.2	14838.0	14901.3	14725.1	14499.4	14562.7	14978.4	16960.4	19859.2	19754.6	15283.9
52.5°	14920.6	14959.1	15256.4	15292.2	15003.1	14780.2	15220.6	17227.5	20200.6	20134.5	15402.3
55°	13431.3	13500.1	14091.9	14771.9	15484.9	15413.3	15608.8	17367.9	20335.5	20352.0	15614.3
57.5°	10425.1	10524.2	11388.6	12321.9	13822.2	15063.7	15658.3	17332.1	20288.7	20379.5	15831.8
60°	6838.1	6895.9	7920.0	8966.1	10521.5	12239.3	14014.9	16687.9	19873.0	20002.4	15776.7
62.5°	4129.3	4195.4	5018.5	5811.3	6728.0	7876.0	9505.7	13412.0	16657.6	16946.7	12635.7
65°	2882.3	2970.3	3691.6	4344.0	4660.6	4423.9	4814.8	7490.6	10378.3	10499.5	7721.8
67.5°	2089.4	2150.0	2741.9	3518.2	3867.8	3124.5	2381.2	3317.2	4520.2	4564.3	3185.1
70°	1368.2	1437.0	1973.8	2678.5	3157.5	2532.6	1781.1	1794.9	1902.2	1924.3	1849.9
72.5°	751.5	792.8	1219.5	1778.4	1866.4	1514.1	1390.2	1492.1	1566.4	1566.4	1585.7
75°	388.2	423.9	498.3	586.4	707.5	828.6	1002.0	1153.5	1233.3	1238.8	1230.5
77.5°	198.2	212.0	267.0	289.1	316.6	368.9	479.0	613.9	685.5	713.0	707.5
80°	93.6	99.1	112.9	132.1	162.4	206.5	258.8	308.3	352.4	357.9	388.2
82.5°	49.6	55.1	60.6	71.6	88.1	110.1	151.4	181.7	209.2	214.7	239.5
85°	19.3	22.0	24.8	27.5	38.5	46.8	63.3	85.3	104.6	104.6	123.9
87.5°	0.0	0.0	0.0	0.0	2.8	5.5	11.0	13.8	19.3	19.3	33.0
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°	5995.8	5995.8	5995.8	5995.8	5995.8	5995.8	5995.8	5995.8	5995.8	5995.8	5995.8
2.5°	6056.3	5976.5	5940.7	5882.9	5836.1	5783.8	5742.5	5712.2	5692.9	5681.9	5670.9
5°	6155.4	6034.3	5937.9	5822.3	5742.5	5665.4	5602.1	5558.0	5536.0	5519.5	5508.5
7.5°	6309.6	6147.2	5965.5	5786.5	5646.1	5522.3	5442.4	5395.6	5365.3	5354.3	5346.1
10°	6521.6	6295.8	5995.8	5712.2	5503.0	5368.1	5313.0	5291.0	5293.8	5288.3	5285.5
12.5°	6761.1	6452.7	5987.5	5580.1	5348.8	5269.0	5271.7	5307.5	5348.8	5359.8	5362.6
15°	7019.8	6606.9	5907.7	5409.4	5227.7	5236.0	5307.5	5392.9	5470.0	5500.2	5505.7
17.5°	7300.6	6736.3	5761.8	5222.2	5128.6	5216.7	5348.8	5489.2	5602.1	5651.6	5665.4
20°	7614.4	6846.4	5555.3	5037.8	5035.0	5180.9	5373.6	5558.0	5701.2	5767.3	5778.3
22.5°	7947.5	6915.2	5302.0	4867.1	4938.7	5134.1	5354.3	5547.0	5698.4	5764.5	5778.3
25°	8283.4	6937.2	5024.0	4710.2	4839.5	5059.8	5260.7	5414.9	5558.0	5615.9	5626.9
27.5°	8597.2	6873.9	4759.7	4575.3	4748.7	4949.7	5084.6	5167.1	5266.2	5310.3	5318.5
30°	8916.5	6747.3	4536.7	4467.9	4646.8	4798.3	4858.8	4864.3	4902.9	4902.9	4908.4
32.5°	9238.6	6560.1	4341.3	4363.3	4520.2	4619.3	4627.6	4564.3	4517.5	4440.4	4437.6
35°	9610.3	6370.1	4181.6	4244.9	4371.6	4432.1	4407.3	4286.2	4173.4	4046.7	4041.2
37.5°	9954.4	6174.7	4046.7	4123.8	4203.6	4247.7	4189.9	4044.0	3950.4	3821.0	3801.7
40°	10237.9	5998.5	3917.3	3997.2	4035.7	4074.2	3980.7	3862.3	3876.0	3804.5	3801.7
42.5°	10403.1	5827.8	3796.2	3856.8	3881.5	3909.1	3826.5	3738.4	3812.7	3757.7	3760.4
45°	10524.2	5679.2	3686.1	3708.1	3768.7	3810.0	3732.9	3633.8	3650.3	3438.3	3388.8
47.5°	10661.9	5596.6	3581.5	3559.5	3666.8	3738.4	3620.0	3476.9	3377.8	3168.6	3149.3
50°	10807.8	5566.3	3471.4	3410.8	3540.2	3609.0	3471.4	3292.4	3163.0	3050.2	3039.2
52.5°	10857.3	5563.6	3333.7	3231.9	3361.3	3457.6	3342.0	3160.3	3006.1	2896.0	2890.5
55°	11052.8	5643.4	3157.5	2986.9	3108.0	3306.2	3220.9	2959.3	2835.5	2785.9	2780.4
57.5°	11281.3	5657.2	2879.5	2719.8	2887.8	3121.8	3014.4	2788.7	2653.8	2593.2	2587.7
60°	11187.7	5318.5	2582.2	2516.1	2700.6	2948.3	2849.2	2653.8	2496.9	2439.0	2433.5
62.5°	8525.6	3754.9	2364.7	2339.9	2499.6	2697.8	2678.5	2474.8	2326.2	2284.9	2279.4
65°	5128.6	2637.3	2155.5	2152.7	2265.6	2455.6	2480.3	2315.2	2158.3	2100.4	2100.4
67.5°	2535.4	2017.9	1918.8	1905.0	1976.6	2111.5	2216.1	2081.2	1949.0	1894.0	1885.7
70°	1792.1	1778.4	1745.3	1706.8	1720.5	1775.6	1819.6	1706.8	1566.4	1511.3	1500.3
72.5°	1549.9	1552.6	1530.6	1500.3	1489.3	1450.8	1412.2	1329.6	1244.3	1186.5	1192.0
75°	1203.0	1208.5	1222.3	1211.3	1181.0	1139.7	1098.4	993.8	925.0	869.9	858.9
77.5°	702.0	729.5	773.6	762.5	768.1	710.2	693.7	591.9	528.6	490.0	481.8
80°	396.4	412.9	432.2	446.0	429.4	404.7	368.9	313.8	294.6	267.0	261.5
82.5°	239.5	256.0	264.3	275.3	269.8	236.7	209.2	173.4	156.9	143.1	140.4
85°	121.1	132.1	140.4	145.9	129.4	107.4	96.4	77.1	66.1	57.8	57.8
87.5°	30.3	33.0	38.5	33.0	30.3	13.8	11.0	2.8	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)