

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: P643273

Luminaire Tested: GWS-SA6E-750-U-T2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643273  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGE-750-U-T2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

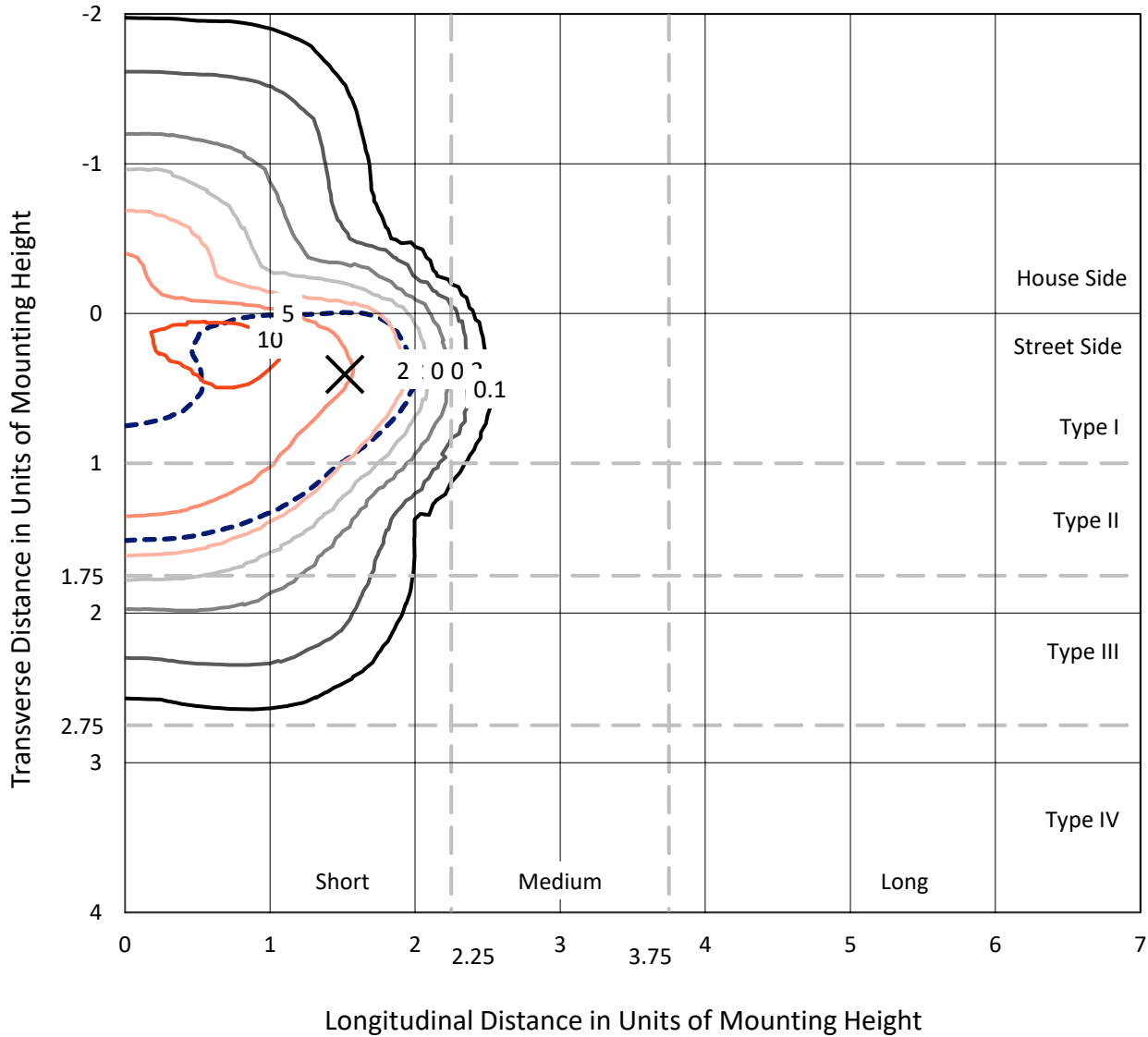
Lumens per Lamp: N/A  
Luminaire Lumens: 27199.4 lumens  
Efficiency: N/A  
Efficacy: 84.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

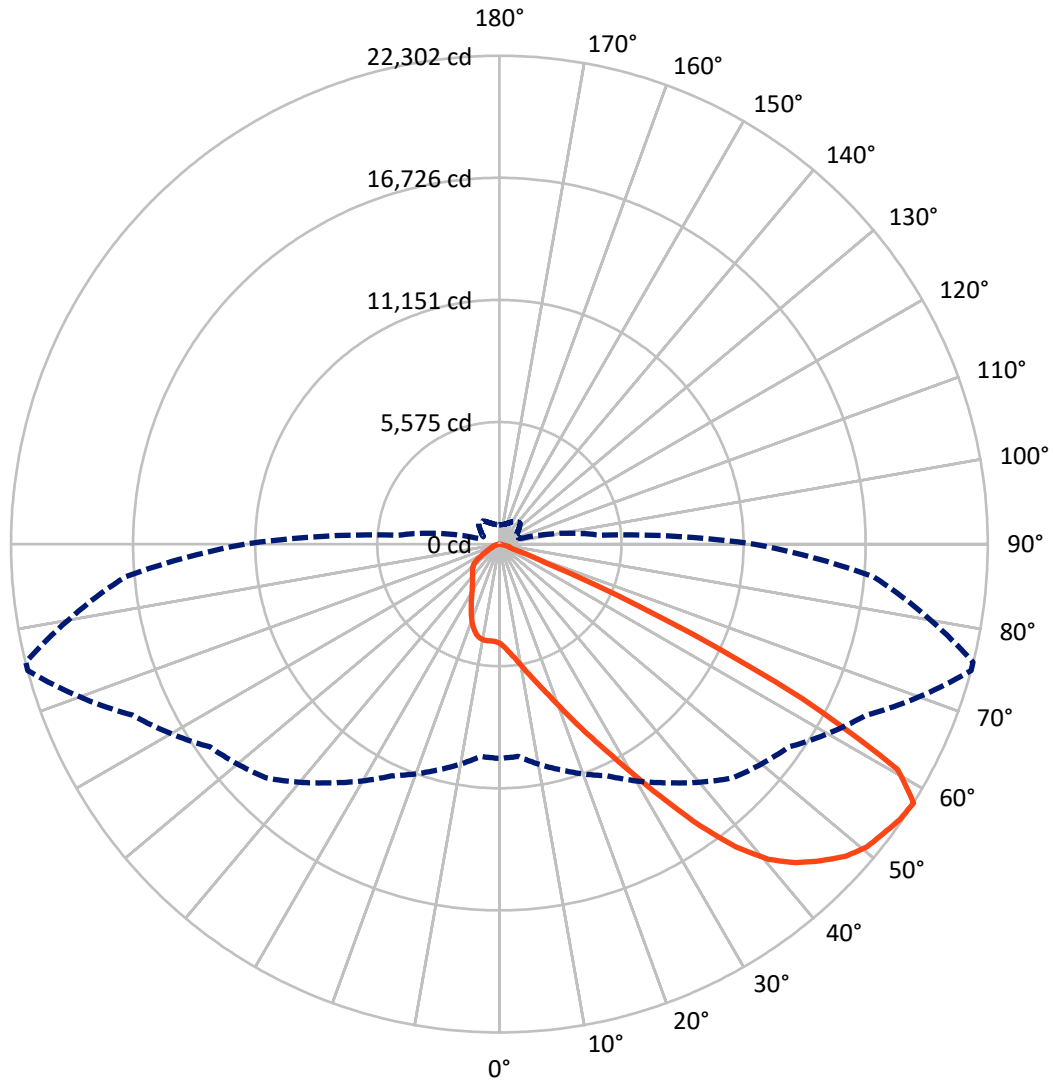
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 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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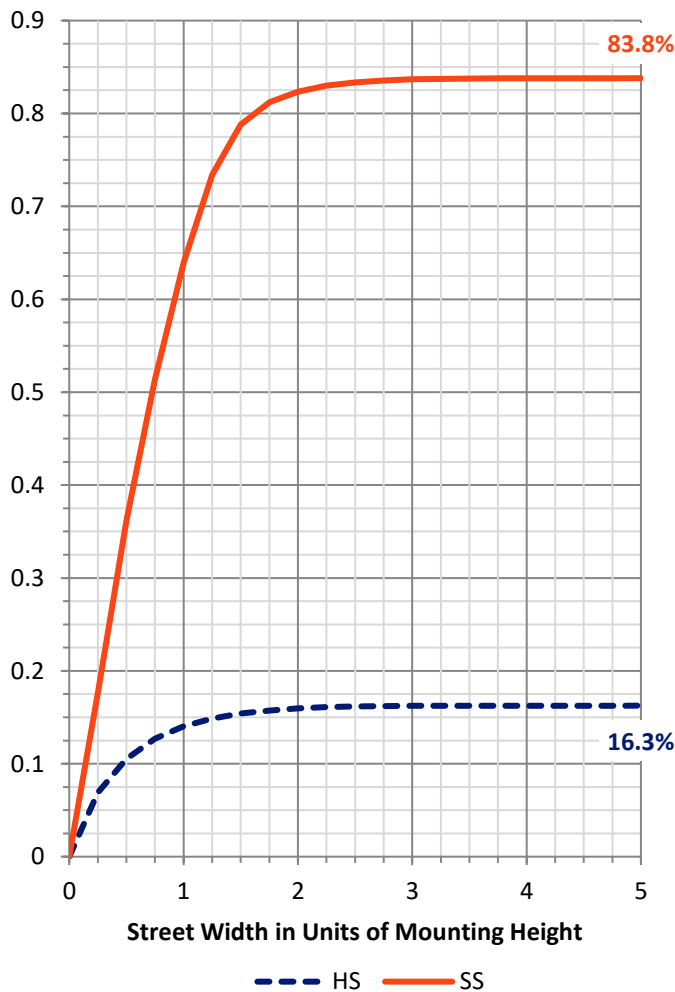
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4443.0	0.0	4443.0
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	22756.4	0.0	22756.4
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	27199.4	0.0	27199.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	461.6	1.7
10°-20°	1499.6	5.5
20°-30°	2746.0	10.1
30°-40°	4555.9	16.8
40°-50°	6958.0	25.6
50°-60°	7818.5	28.7
60°-70°	2883.8	10.6
70°-80°	275.7	1.0
80°-90°	0.2	0.0
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°	27199.4	100.0
0°-180°	27199.4	100.0

**Coefficient of Utilization**



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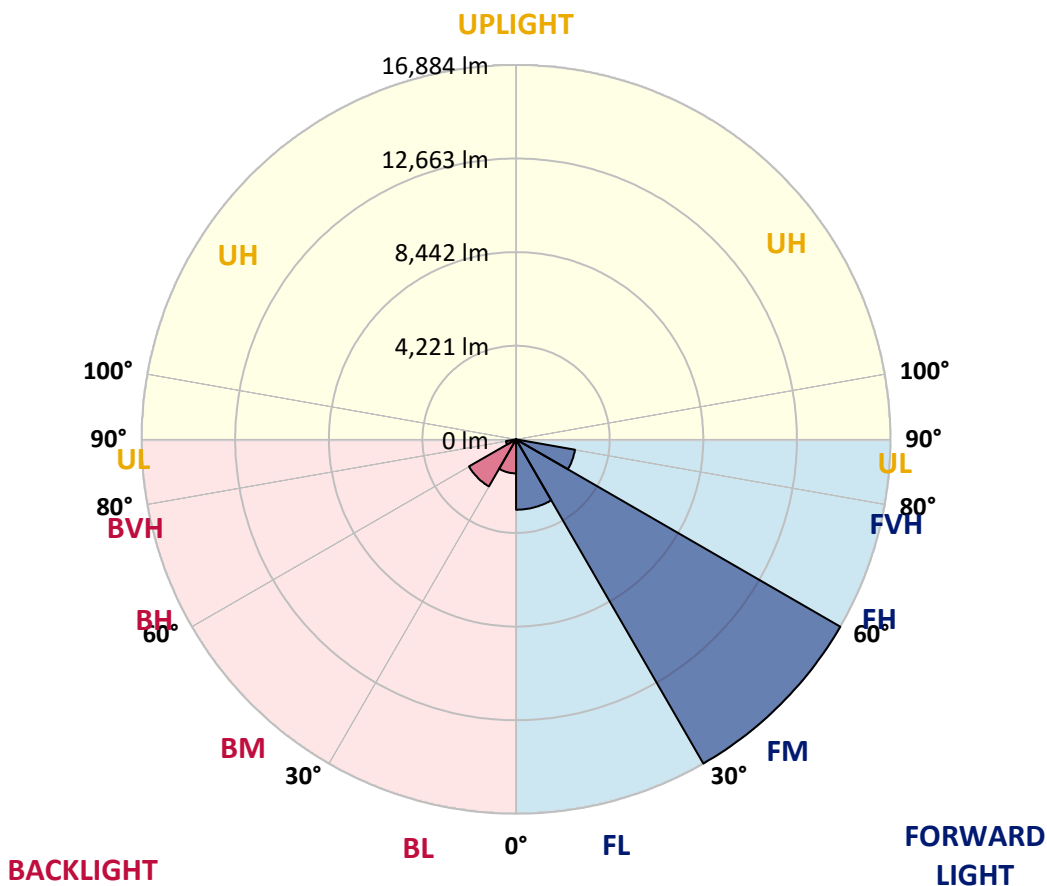
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3174.1	11.7			
FM (30°-60°)	16884.1	62.1			
FH (60°-80°)	2698.1	9.9			G2/5000
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	1533.1	5.6	B3/2500		
BM (30°-60°)	2448.4	9.0	B2/2500		
BH (60°-80°)	461.4	1.7	B1/500		G1/500
BVH (80°-90°)	0.1	0.0			G0/10
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°	76°	85°
0°	4536.5	4536.5	4536.5	4536.5	4536.5	4536.5	4536.5	4536.5	4536.5	4536.5	4536.5
2.5°	5068.3	5120.8	5104.4	5071.5	5051.8	4982.9	4940.2	4815.5	4726.9	4717.0	4635.0
5°	5708.4	5698.5	5685.4	5646.0	5613.2	5504.8	5376.8	5166.7	4979.6	4956.6	4782.7
7.5°	6059.6	6066.1	6072.7	6066.1	6043.2	5961.1	5820.0	5573.8	5288.2	5268.5	4992.8
10°	6204.0	6217.1	6250.0	6312.3	6368.1	6361.6	6279.5	6026.8	5675.5	5642.7	5271.8
12.5°	6272.9	6289.4	6341.9	6460.1	6611.1	6729.2	6742.4	6515.9	6128.5	6076.0	5603.3
15°	6368.1	6384.6	6450.2	6604.5	6824.4	7057.5	7208.5	7064.0	6630.7	6574.9	5967.7
17.5°	6410.8	6433.8	6529.0	6732.5	7018.1	7375.9	7717.3	7704.1	7224.9	7182.2	6391.1
20°	6492.9	6509.3	6594.6	6814.6	7159.2	7674.6	8249.0	8455.8	7950.3	7888.0	6903.2
22.5°	6752.2	6758.8	6798.2	6936.0	7257.7	7891.2	8790.7	9332.3	8807.1	8725.0	7477.6
25°	7175.6	7172.4	7188.8	7211.8	7448.1	8111.2	9312.6	10320.3	9788.6	9699.9	8127.6
27.5°	7714.0	7714.0	7753.4	7687.7	7782.9	8383.6	9827.9	11456.1	10930.9	10806.1	8839.9
30°	8347.5	8344.2	8436.1	8331.1	8360.6	8813.6	10382.7	12693.6	12309.6	12155.3	9660.5
32.5°	9207.5	9187.9	9292.9	9148.5	9050.0	9463.6	11058.9	13986.9	13960.7	13724.3	10691.3
35°	10294.1	10261.2	10294.1	10152.9	9975.7	10372.9	11945.2	15277.0	15792.3	15542.9	11918.9
37.5°	11374.0	11479.1	11515.2	11272.3	11127.8	11525.0	13012.0	16432.4	17541.9	17282.6	13195.8
40°	12647.7	12614.8	12739.6	12467.1	12375.2	12815.1	14055.9	17292.5	18927.2	18681.0	14331.6
42.5°	13586.5	13645.6	13799.8	13648.8	13576.6	13990.2	14932.3	17794.7	19889.0	19646.0	15142.4
45°	14712.4	14755.1	14814.1	14689.4	14613.9	15020.9	15565.8	18014.6	20621.0	20358.4	15687.3
47.5°	15930.2	15963.0	15963.0	15707.0	15464.1	15631.5	15989.3	18139.4	21293.9	21041.1	16091.1
50°	16803.4	16819.8	16964.2	16783.7	16255.2	15995.9	16183.0	18260.8	21740.3	21504.0	16222.4
52.5°	16028.7	16009.0	16485.0	16859.2	17000.3	16485.0	16517.8	18438.1	21957.0	21753.4	16327.4
55°	13497.8	13465.0	14134.7	15043.9	16288.0	16947.8	16921.5	18543.1	22196.6	22071.9	16708.2
57.5°	9785.3	9729.5	10661.7	11672.7	13304.2	15093.2	16143.6	18484.0	22301.6	22291.8	17151.3
60°	5882.3	5836.4	6716.1	7779.6	9040.1	10839.0	12582.0	16557.2	20896.7	20916.4	15999.1
62.5°	3620.7	3663.3	4457.7	4999.3	5468.7	6010.3	7018.1	11137.7	15480.5	15608.5	11242.7
65°	2435.7	2468.5	3203.8	3886.5	3886.5	3177.5	2727.8	5324.3	8258.9	8042.2	5317.7
67.5°	1634.7	1670.8	2251.8	3049.5	3164.4	2215.7	1106.2	1588.8	2301.1	2232.1	1316.3
70°	961.8	1001.2	1500.1	2091.0	2304.3	1542.8	738.6	672.9	653.2	633.5	512.1
72.5°	430.0	446.4	764.8	1063.5	971.6	649.9	521.9	538.3	508.8	498.9	416.9
75°	131.3	137.9	197.0	229.8	233.1	233.1	315.1	423.4	400.5	403.8	321.7
77.5°	32.8	32.8	52.5	49.2	26.3	23.0	59.1	95.2	98.5	88.6	65.7
80°	0.0	0.0	0.0	0.0	0.0	3.3	3.3	3.3	3.3	3.3	3.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4536.5	4536.5	4536.5	4536.5	4536.5	4536.5	4536.5	4536.5	4536.5	4536.5	4536.5
2.5°	4598.8	4513.5	4457.7	4378.9	4323.1	4264.0	4211.5	4168.8	4145.9	4139.3	4142.6
5°	4703.9	4569.3	4438.0	4287.0	4182.0	4083.5	4004.7	3942.3	3912.8	3902.9	3902.9
7.5°	4864.7	4677.6	4444.6	4208.2	4031.0	3876.7	3784.8	3715.8	3689.6	3683.0	3663.3
10°	5074.8	4818.8	4434.7	4067.1	3817.6	3656.8	3591.1	3571.4	3581.3	3584.5	3581.3
12.5°	5327.6	4966.5	4372.4	3860.3	3591.1	3492.6	3499.2	3551.7	3610.8	3640.3	3646.9
15°	5596.7	5101.1	4231.2	3614.1	3397.4	3394.2	3489.3	3610.8	3725.7	3774.9	3788.1
17.5°	5898.7	5209.4	4014.6	3351.5	3230.0	3325.2	3495.9	3683.0	3837.3	3919.4	3935.8
20°	6230.3	5298.0	3738.8	3105.3	3082.3	3253.0	3489.3	3719.1	3909.5	4001.4	4017.8
22.5°	6574.9	5360.4	3420.4	2878.8	2947.7	3170.9	3427.0	3650.2	3830.7	3935.8	3948.9
25°	6968.8	5367.0	3095.4	2688.4	2823.0	3059.3	3276.0	3459.8	3610.8	3702.7	3712.6
27.5°	7313.5	5288.2	2806.6	2534.1	2708.1	2921.5	3065.9	3167.7	3272.7	3325.2	3328.5
30°	7710.7	5150.3	2534.1	2409.4	2589.9	2750.8	2823.0	2846.0	2855.8	2865.7	2852.5
32.5°	8183.4	4982.9	2330.6	2287.9	2455.3	2563.7	2583.4	2537.4	2481.6	2402.8	2383.1
35°	8764.4	4831.9	2163.2	2169.8	2307.6	2373.3	2356.9	2258.4	2150.1	2054.9	2038.5
37.5°	9394.7	4703.9	2035.2	2054.9	2146.8	2192.7	2143.5	2035.2	1985.9	1903.9	1907.2
40°	9952.7	4598.8	1920.3	1940.0	1982.7	2025.3	1946.6	1874.3	1966.2	1959.7	1966.2
42.5°	10349.9	4510.2	1821.8	1812.0	1841.5	1871.1	1812.0	1775.9	1930.1	1887.5	1910.4
45°	10582.9	4428.2	1739.8	1680.7	1726.6	1779.1	1739.8	1693.8	1746.3	1549.4	1532.9
47.5°	10740.5	4382.2	1667.5	1552.6	1634.7	1726.6	1644.6	1532.9	1457.5	1286.8	1273.6
50°	10756.9	4359.2	1582.2	1421.3	1526.4	1624.9	1529.7	1375.4	1267.1	1191.6	1181.7
52.5°	10842.3	4405.2	1464.0	1253.9	1368.8	1526.4	1460.7	1306.5	1158.7	1093.1	1080.0
55°	11223.0	4598.8	1267.1	1024.2	1191.6	1450.9	1404.9	1165.3	1024.2	984.8	974.9
57.5°	11616.9	4638.2	997.9	810.8	1037.3	1342.6	1283.5	1073.4	935.5	889.6	879.7
60°	10622.3	3820.9	748.4	669.6	915.8	1240.8	1188.3	1017.6	856.7	800.9	791.1
62.5°	6978.7	2064.7	594.1	567.9	771.4	1050.4	1083.2	919.1	764.8	705.7	702.5
65°	3216.9	958.5	456.3	449.7	604.0	837.0	932.2	804.2	646.7	594.1	594.1
67.5°	876.4	476.0	357.8	331.5	410.3	561.3	679.5	600.7	459.6	397.2	393.9
70°	436.6	384.1	321.7	285.6	295.4	348.0	400.5	334.8	233.1	190.4	187.1
72.5°	357.8	315.1	272.5	242.9	223.2	213.4	206.8	167.4	108.3	82.1	78.8
75°	265.9	226.5	193.7	157.6	134.6	124.7	111.6	82.1	46.0	26.3	23.0
77.5°	59.1	55.8	52.5	39.4	36.1	29.5	23.0	16.4	6.6	0.0	0.0
80°	3.3	3.3	3.3	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)