

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: P638277

Luminaire Tested: GWS-SA4E-740-U-T3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638277  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4E-740-U-T3-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

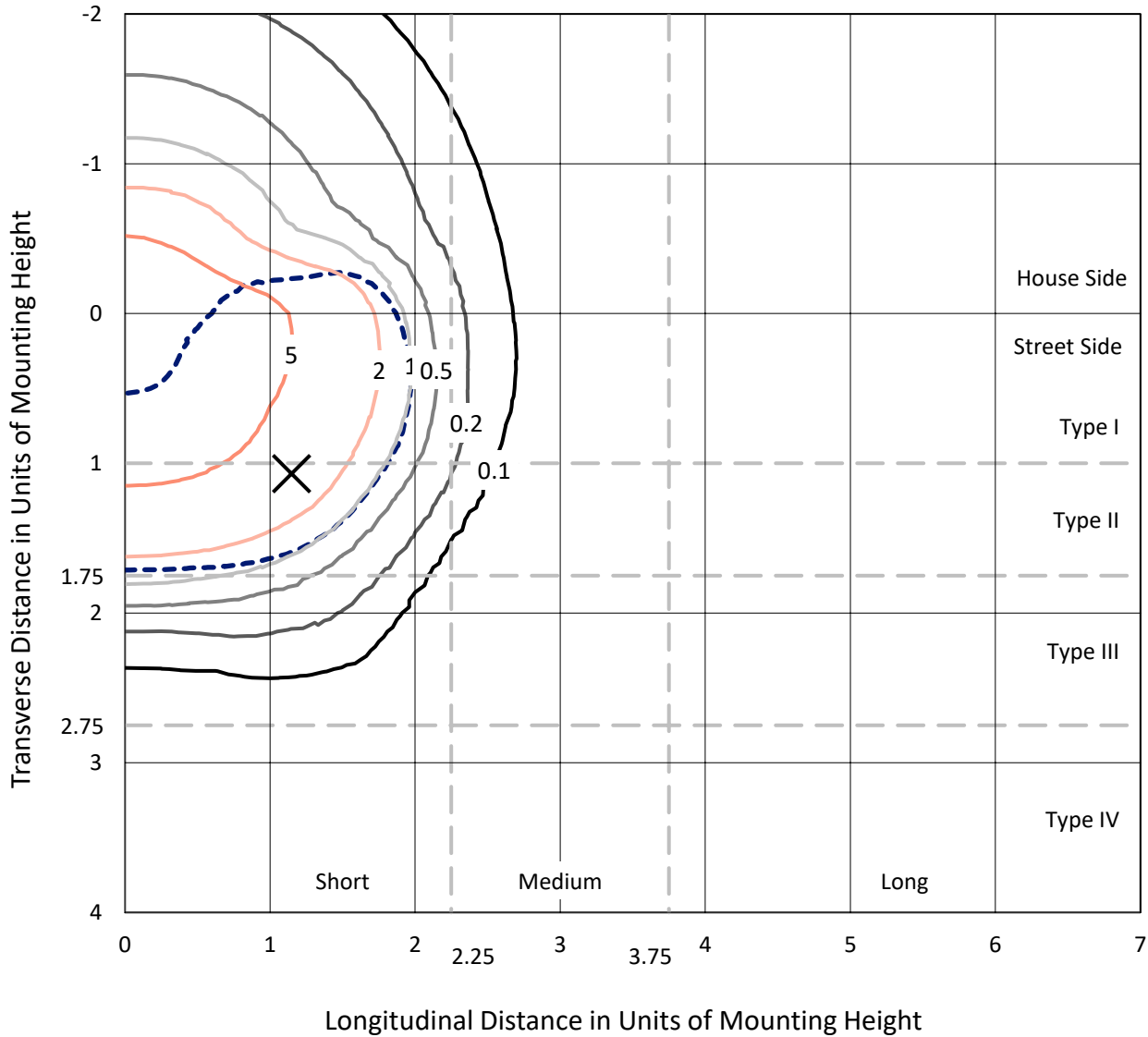
Lumens per Lamp: N/A  
Luminaire Lumens: 26119.5 lumens  
Efficiency: N/A  
Efficacy: 128.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

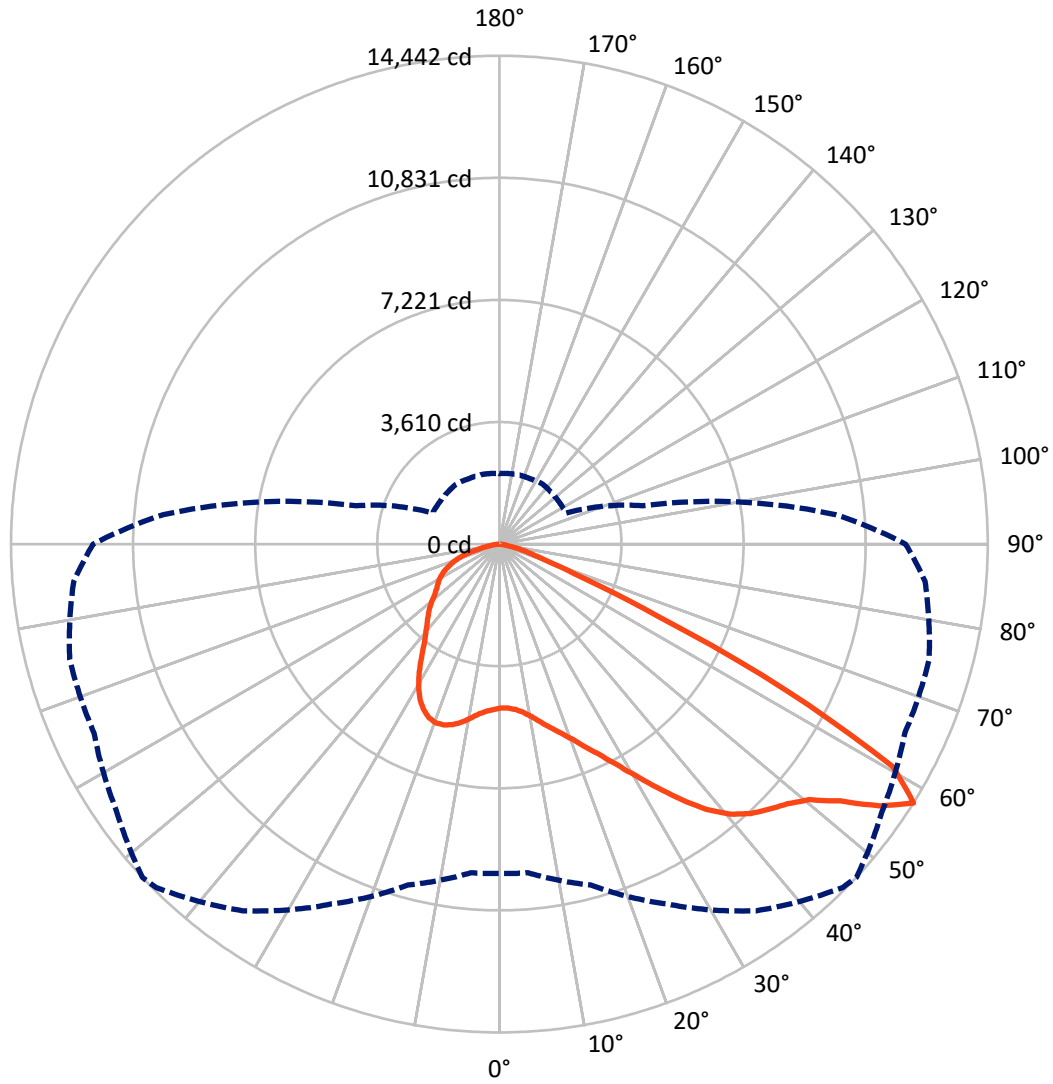
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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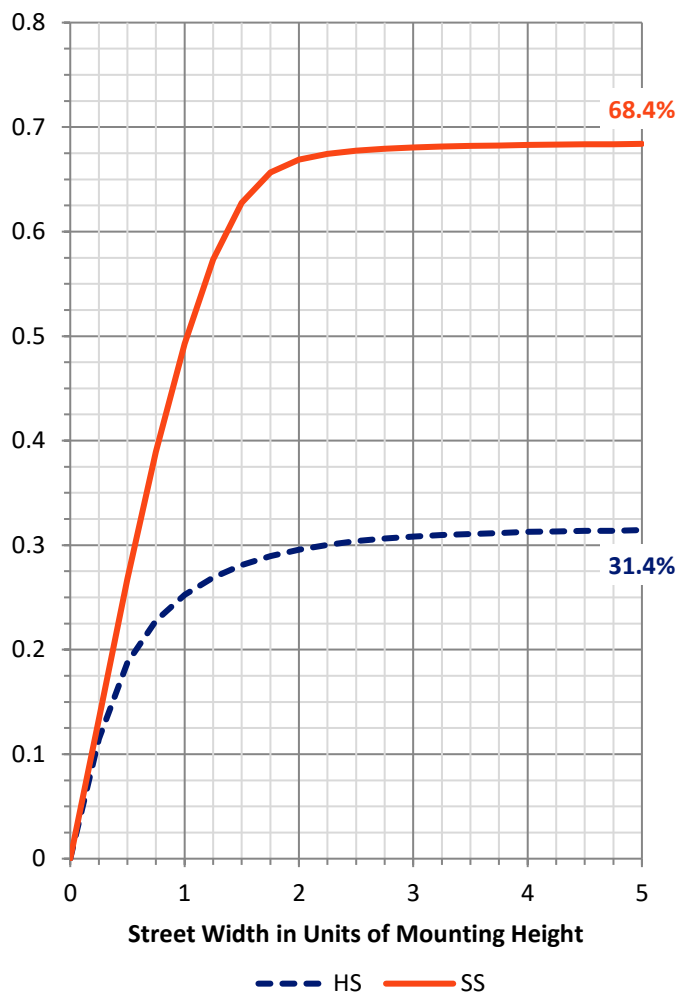
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8266.8	0.0	8266.8
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	17852.7	0.0	17852.7
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	26119.5	0.0	26119.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	477.8	1.8
10°-20°	1571.4	6.0
20°-30°	2829.4	10.8
30°-40°	4273.6	16.4
40°-50°	5754.9	22.0
50°-60°	6915.2	26.5
60°-70°	3367.8	12.9
70°-80°	829.7	3.2
80°-90°	99.7	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°	26119.5	100.0
0°-180°	26119.5	100.0

**Coefficient of Utilization**



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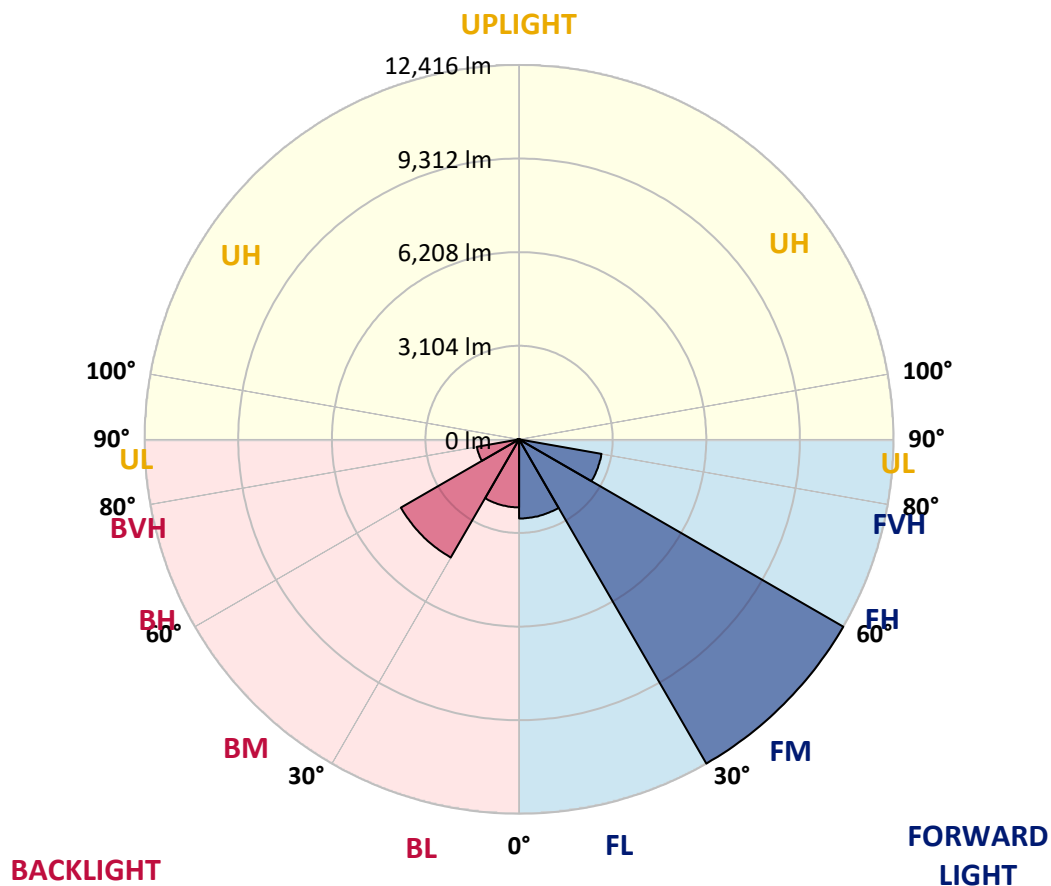
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2623.6	10.0			
FM (30°-60°)	12416.0	47.5			
FH (60°-80°)	2775.7	10.6			G2/5000
FVH (80°-90°)	37.5	0.1			G1/100
BL (0°-30°)	2255.0	8.6	B3/2500		
BM (30°-60°)	4527.7	17.3	B3/5000		
BH (60°-80°)	1421.8	5.4	B3/2500		G3/2500
BVH (80°-90°)	62.2	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°	47°	55°	65°	75°	85°
0°	4843.9	4843.9	4843.9	4843.9	4843.9	4843.9	4843.9	4843.9	4843.9	4843.9	4843.9
2.5°	4835.1	4832.9	4832.9	4846.1	4846.1	4850.5	4857.1	4863.6	4865.8	4854.9	4830.7
5°	4887.8	4887.8	4887.8	4898.7	4898.7	4903.1	4911.9	4914.1	4911.9	4894.4	4870.2
7.5°	4971.1	4971.1	4973.3	4986.5	4997.5	5004.0	5019.4	5017.2	5010.6	4982.1	4951.4
10°	5107.2	5113.7	5120.3	5135.7	5157.6	5173.0	5183.9	5183.9	5175.2	5131.3	5091.8
12.5°	5300.2	5309.0	5315.6	5328.7	5346.3	5372.6	5396.7	5396.7	5385.8	5330.9	5271.7
15°	5526.2	5534.9	5532.8	5537.1	5570.0	5607.3	5627.1	5640.2	5644.6	5567.9	5475.7
17.5°	5785.0	5793.8	5785.0	5771.9	5776.3	5835.5	5870.6	5918.9	5947.4	5844.3	5697.3
20°	6019.8	6011.0	6011.0	6019.8	6032.9	6105.3	6158.0	6237.0	6272.1	6147.0	5918.9
22.5°	6267.7	6287.4	6278.6	6278.6	6331.3	6452.0	6515.6	6618.7	6656.0	6493.6	6186.5
25°	6588.0	6605.5	6601.1	6605.5	6666.9	6838.1	6901.7	7092.5	7129.8	6897.3	6482.7
27.5°	6939.0	6967.5	6980.7	6976.3	7075.0	7298.8	7377.7	7643.2	7711.2	7349.2	6798.6
30°	7395.3	7426.0	7437.0	7432.6	7548.8	7853.8	7943.7	8246.5	8343.0	7884.5	7200.0
32.5°	7924.0	7954.7	7987.6	8000.8	8149.9	8461.5	8590.9	8904.6	9042.8	8503.1	7684.9
35°	8448.3	8474.6	8538.2	8641.4	8845.4	9163.5	9277.6	9586.9	9720.7	9145.9	8270.6
37.5°	9027.5	9045.0	9099.9	9242.5	9536.4	9839.2	9953.2	10249.4	10264.8	9766.8	8933.1
40°	9661.5	9661.5	9650.5	9790.9	10098.0	10403.0	10501.7	10672.8	10582.9	10245.0	9578.1
42.5°	10199.0	10190.2	10199.0	10330.6	10558.7	10806.6	10892.2	10859.3	10745.2	10611.4	10161.7
45°	10683.8	10690.4	10769.3	10870.3	10988.7	11135.7	11186.2	10999.7	10896.6	10905.4	10628.9
47.5°	11012.9	11019.4	11203.7	11372.6	11445.0	11491.1	11469.2	11210.3	11157.6	11256.4	10988.7
50°	11056.7	11091.8	11409.9	11756.5	11936.4	11943.0	11881.6	11565.7	11550.3	11662.2	11181.8
52.5°	11065.5	11100.6	11497.7	12122.9	12590.2	12688.9	12618.7	12289.6	12129.5	12017.6	11418.7
55°	11032.6	11072.1	11510.8	12368.6	13263.7	13658.6	13665.1	13200.1	12688.9	12614.3	12094.4
57.5°	9740.4	9755.8	10435.9	11743.4	13237.4	14356.2	14441.8	13809.9	13226.4	13156.2	12636.3
60°	6785.4	6846.8	7586.1	9312.7	11120.3	13092.6	13369.0	13184.7	12794.2	12283.1	10841.7
62.5°	3398.2	3450.8	4192.3	5824.5	7669.5	9227.1	9523.3	9718.5	9810.7	9262.2	7382.1
65°	1463.3	1502.7	1963.4	3042.8	4341.5	5094.0	5197.1	5431.8	6006.6	5359.4	3977.4
67.5°	978.4	1004.8	1239.5	1856.0	2558.0	2606.2	2590.9	2641.3	2766.4	2283.7	1796.7
70°	750.3	772.2	930.2	1360.2	1838.4	1573.0	1489.6	1351.4	1467.6	1496.2	1456.7
72.5°	544.1	561.6	680.1	928.0	1151.7	1004.8	991.6	1061.8	1219.7	1263.6	1239.5
75°	351.0	359.8	432.2	509.0	594.5	645.0	671.3	798.5	958.7	991.6	963.1
77.5°	234.7	241.3	283.0	326.9	337.8	340.0	348.8	405.9	515.5	577.0	570.4
80°	122.9	122.9	138.2	138.2	158.0	188.7	197.4	234.7	285.2	315.9	318.1
82.5°	48.3	50.5	59.2	65.8	79.0	96.5	103.1	122.9	149.2	171.1	190.9
85°	19.7	21.9	24.1	28.5	35.1	43.9	46.1	52.7	70.2	87.8	98.7
87.5°	0.0	0.0	2.2	2.2	4.4	6.6	6.6	8.8	11.0	19.7	26.3
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°	4843.9	4843.9	4843.9	4843.9	4843.9	4843.9	4843.9	4843.9	4843.9	4843.9	4843.9
2.5°	4859.3	4830.7	4859.3	4868.0	4892.2	4900.9	4885.6	4883.4	4883.4	4861.4	4854.9
5°	4892.2	4865.8	4894.4	4907.5	4942.6	4964.6	4968.9	4986.5	4997.5	4988.7	4986.5
7.5°	4973.3	4940.4	4971.1	4990.9	5037.0	5072.1	5087.4	5126.9	5155.4	5151.0	5148.8
10°	5115.9	5072.1	5107.2	5140.1	5190.5	5232.2	5234.4	5256.3	5284.9	5276.1	5271.7
12.5°	5280.5	5238.8	5278.3	5311.2	5370.4	5388.0	5359.4	5350.7	5355.1	5344.1	5335.3
15°	5482.3	5423.1	5458.2	5495.5	5528.4	5508.6	5447.2	5423.1	5420.9	5405.5	5396.7
17.5°	5684.1	5609.5	5635.9	5655.6	5640.2	5578.8	5502.0	5460.4	5440.6	5409.9	5401.1
20°	5883.8	5789.4	5785.0	5769.7	5699.5	5587.6	5484.5	5401.1	5350.7	5309.0	5293.6
22.5°	6111.9	5980.3	5914.5	5844.3	5690.7	5508.6	5352.9	5234.4	5153.2	5100.6	5083.0
25°	6357.6	6171.1	6035.1	5894.7	5603.0	5339.7	5122.5	4960.2	4863.6	4806.6	4786.9
27.5°	6601.1	6344.5	6140.4	5901.3	5427.4	5096.2	4804.4	4585.0	4488.5	4442.4	4427.1
30°	6930.2	6574.8	6265.5	5815.8	5197.1	4758.3	4394.2	4172.6	4109.0	4076.1	4062.9
32.5°	7309.7	6866.6	6432.2	5635.9	4903.1	4363.5	3979.5	3826.0	3782.1	3718.5	3716.3
35°	7809.9	7283.4	6590.2	5370.4	4532.4	3940.1	3661.4	3551.8	3472.8	3371.9	3363.1
37.5°	8393.5	7803.3	6675.7	5032.6	4100.2	3591.2	3424.5	3301.7	3174.4	3040.6	3023.0
40°	8996.8	8411.0	6682.3	4633.3	3676.8	3360.9	3220.5	3060.3	2902.4	2753.2	2733.5
42.5°	9630.8	8977.0	6566.0	4172.6	3330.2	3161.3	3018.7	2816.8	2639.1	2538.2	2527.3
45°	10196.8	9433.3	6302.8	3687.8	3073.5	2994.5	2812.4	2595.3	2500.9	2428.5	2413.2
47.5°	10642.1	9736.1	5947.4	3253.4	2865.1	2823.4	2586.5	2474.6	2402.2	2336.4	2321.0
50°	10861.5	9804.1	5484.5	2900.2	2672.0	2621.6	2459.2	2373.7	2325.4	2272.8	2259.6
52.5°	11133.5	9880.9	5085.2	2604.0	2483.4	2415.4	2353.9	2285.9	2250.8	2217.9	2207.0
55°	11758.7	10170.4	4874.6	2367.1	2303.5	2272.8	2264.0	2207.0	2196.0	2174.1	2154.3
57.5°	12013.2	9984.0	4376.6	2174.1	2160.9	2165.3	2187.2	2134.6	2123.6	2097.3	2084.1
60°	9661.5	7546.7	2963.8	2007.3	2042.4	2070.9	2092.9	2040.2	2024.9	2020.5	2002.9
62.5°	6190.9	4642.1	2068.7	1851.6	1904.2	1939.3	1952.5	1902.0	1891.1	1926.2	1928.3
65°	3222.7	2529.4	1678.3	1684.8	1728.7	1781.4	1807.7	1790.1	1785.7	1823.0	1825.2
67.5°	1645.3	1546.6	1463.3	1487.4	1522.5	1590.5	1651.9	1728.7	1755.0	1759.4	1761.6
70°	1401.8	1358.0	1316.3	1331.6	1368.9	1406.2	1465.5	1502.7	1458.9	1447.9	1443.5
72.5°	1193.4	1160.5	1140.8	1158.3	1178.1	1171.5	1153.9	1171.5	1178.1	1180.3	1182.5
75°	928.0	903.8	888.5	890.7	890.7	866.5	833.6	813.9	792.0	774.4	774.4
77.5°	568.2	572.6	587.9	585.7	583.5	574.8	541.9	524.3	471.7	456.3	456.3
80°	324.7	331.3	346.6	351.0	351.0	340.0	307.1	287.4	263.3	252.3	250.1
82.5°	197.4	206.2	215.0	219.4	221.6	208.4	179.9	164.5	151.4	140.4	140.4
85°	103.1	107.5	116.3	118.5	111.9	98.7	83.4	76.8	63.6	61.4	61.4
87.5°	28.5	30.7	35.1	28.5	26.3	19.7	11.0	8.8	4.4	2.2	2.2
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)