

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: P639817

Luminaire Tested: GWS-SA5C-750-U-T3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639817  
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-SA5C-750-U-T3-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

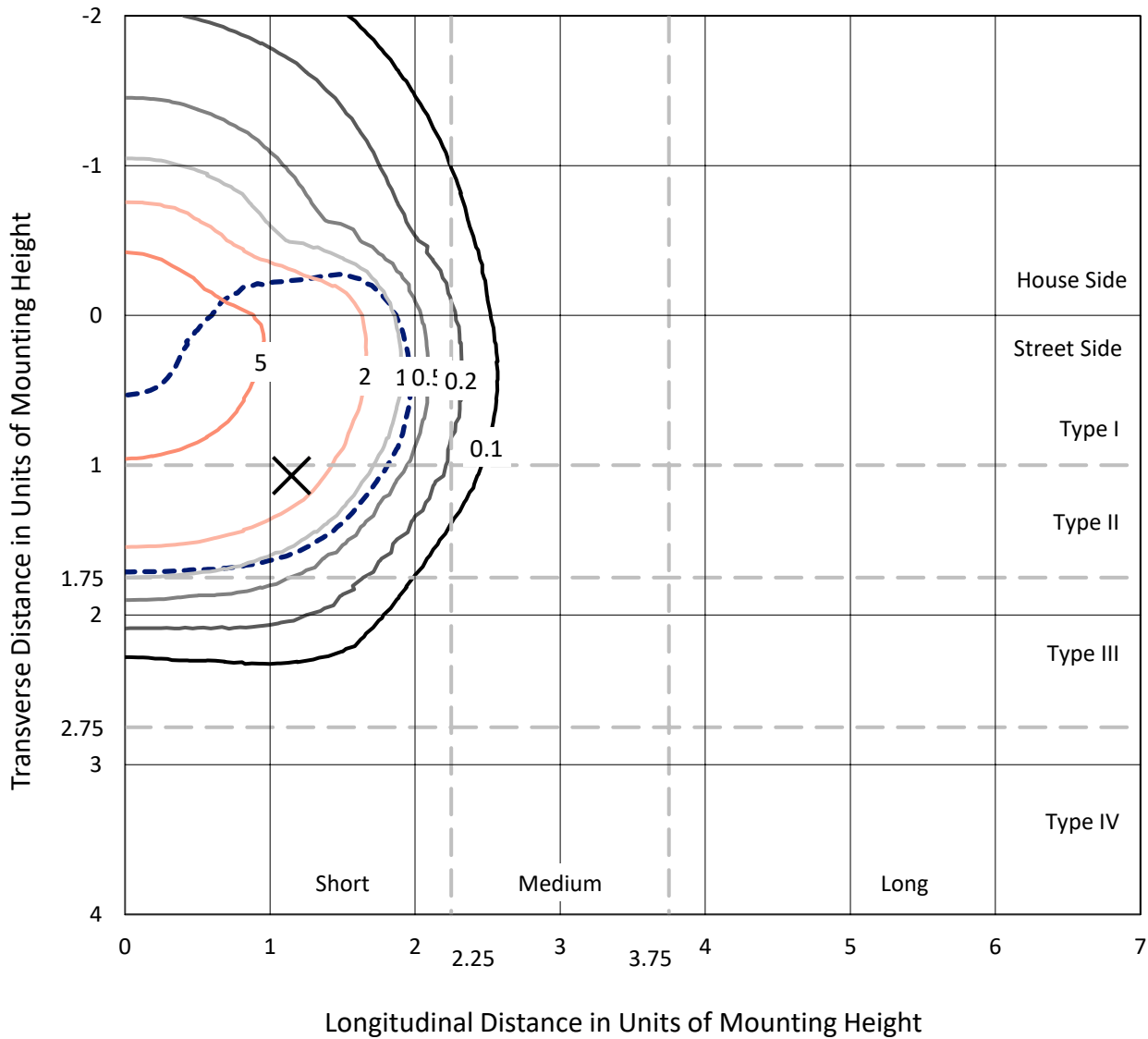
Lumens per Lamp: N/A  
Luminaire Lumens: 20789.9 lumens  
Efficiency: N/A  
Efficacy: 132.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): 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

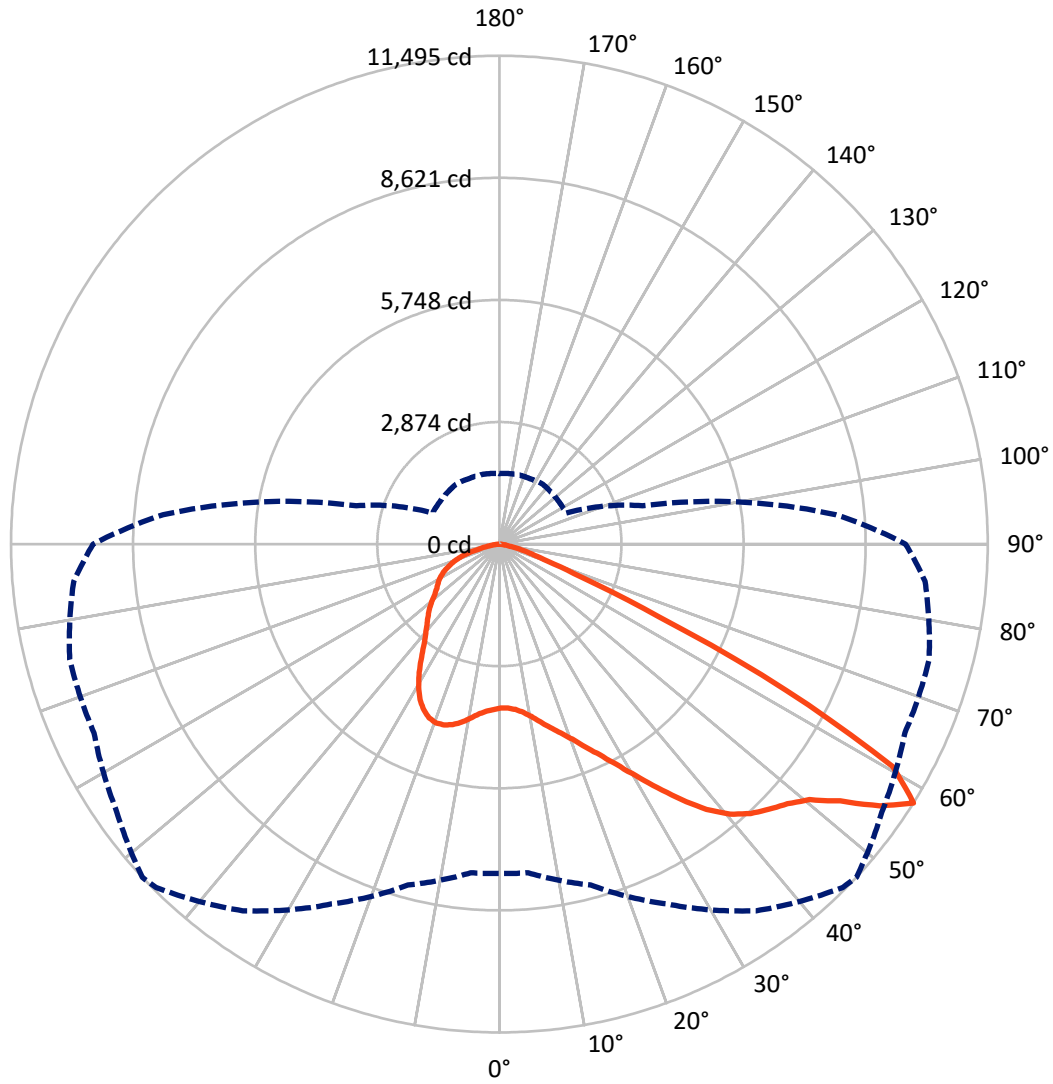
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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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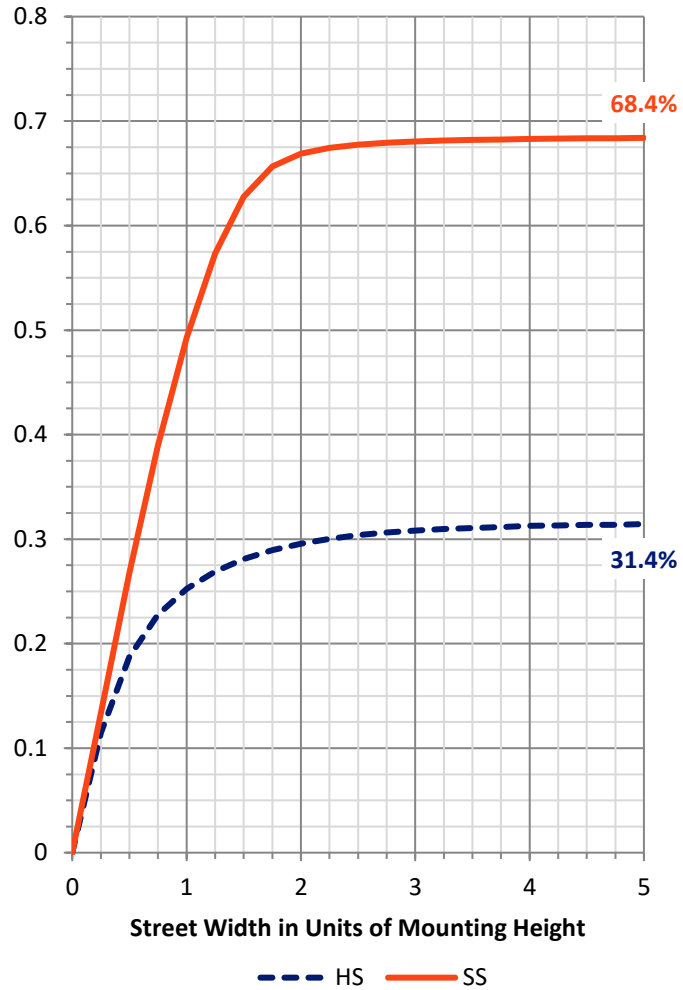
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6580.0	0.0	6580.0
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	14209.9	0.0	14209.9
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	20789.9	0.0	20789.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	380.3	1.8
10°-20°	1250.7	6.0
20°-30°	2252.1	10.8
30°-40°	3401.6	16.4
40°-50°	4580.6	22.0
50°-60°	5504.2	26.5
60°-70°	2680.6	12.9
70°-80°	660.4	3.2
80°-90°	79.4	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°	20789.9	100.0
0°-180°	20789.9	100.0

**Coefficient of Utilization**



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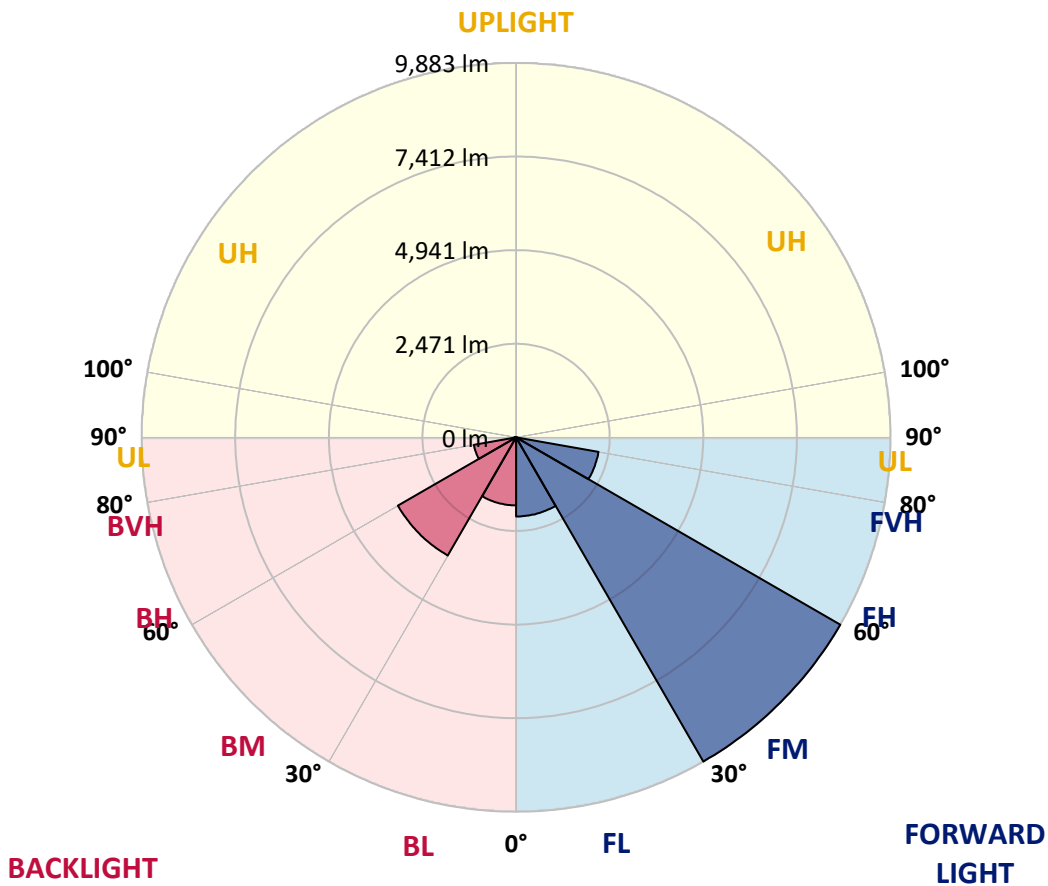
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2088.2	10.0			
FM (30°-60°)	9882.5	47.5			
FH (60°-80°)	2209.3	10.6			G2/5000
FVH (80°-90°)	29.8	0.1			G1/100
BL (0°-30°)	1794.9	8.6	B3/2500		
BM (30°-60°)	3603.8	17.3	B3/5000		
BH (60°-80°)	1131.7	5.4	B3/2500		G3/2500
BVH (80°-90°)	49.5	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°	3855.5	3855.5	3855.5	3855.5	3855.5	3855.5	3855.5	3855.5	3855.5	3855.5	3855.5
2.5°	3848.5	3846.8	3846.8	3857.3	3857.3	3860.8	3866.0	3871.2	3873.0	3864.2	3845.0
5°	3890.4	3890.4	3890.4	3899.2	3899.2	3902.7	3909.6	3911.4	3909.6	3895.7	3876.5
7.5°	3956.8	3956.8	3958.5	3969.0	3977.7	3983.0	3995.2	3993.5	3988.2	3965.5	3941.1
10°	4065.1	4070.3	4075.5	4087.8	4105.2	4117.4	4126.2	4126.2	4119.2	4084.3	4052.8
12.5°	4218.7	4225.7	4230.9	4241.4	4255.4	4276.3	4295.5	4295.5	4286.8	4243.2	4196.0
15°	4398.6	4405.6	4403.8	4407.3	4433.5	4463.2	4478.9	4489.4	4492.9	4431.7	4358.4
17.5°	4604.6	4611.6	4604.6	4594.1	4597.6	4644.8	4672.7	4711.1	4733.8	4651.8	4534.8
20°	4791.5	4784.5	4784.5	4791.5	4801.9	4859.6	4901.5	4964.3	4992.3	4892.7	4711.1
22.5°	4988.8	5004.5	4997.5	4997.5	5039.4	5135.5	5186.1	5268.2	5297.8	5168.6	4924.2
25°	5243.7	5257.7	5254.2	5257.7	5306.6	5442.8	5493.4	5645.3	5675.0	5489.9	5159.9
27.5°	5523.1	5545.8	5556.3	5552.8	5631.4	5809.5	5872.3	6083.6	6137.7	5849.6	5411.3
30°	5886.3	5910.7	5919.5	5916.0	6008.5	6251.2	6322.8	6563.8	6640.6	6275.7	5730.9
32.5°	6307.1	6331.6	6357.8	6368.2	6487.0	6734.9	6838.0	7087.7	7197.7	6768.1	6116.8
35°	6724.5	6745.4	6796.0	6878.1	7040.5	7293.7	7384.5	7630.7	7737.2	7279.7	6583.0
37.5°	7185.4	7199.4	7243.1	7356.6	7590.5	7831.5	7922.3	8158.1	8170.3	7773.9	7110.4
40°	7690.1	7690.1	7681.3	7793.1	8037.6	8280.3	8358.9	8495.1	8423.5	8154.6	7623.7
42.5°	8117.9	8110.9	8117.9	8222.7	8404.3	8601.6	8669.7	8643.5	8552.7	8446.2	8088.2
45°	8503.8	8509.0	8571.9	8652.2	8746.5	8863.5	8903.7	8755.2	8673.2	8680.2	8460.1
47.5°	8765.7	8771.0	8917.6	9052.1	9109.7	9146.4	9128.9	8922.9	8881.0	8959.5	8746.5
50°	8800.6	8828.6	9081.8	9357.7	9500.8	9506.1	9457.2	9205.7	9193.5	9282.6	8900.2
52.5°	8807.6	8835.6	9151.6	9649.3	10021.2	10099.8	10043.9	9782.0	9654.5	9565.5	9088.8
55°	8781.4	8812.9	9162.1	9844.8	10557.3	10871.6	10876.8	10506.6	10099.8	10040.4	9626.6
57.5°	7752.9	7765.2	8306.5	9347.2	10536.3	11426.9	11495.0	10992.1	10527.6	10471.7	10057.9
60°	5400.9	5449.8	6038.2	7412.4	8851.3	10421.1	10641.1	10494.4	10183.6	9776.7	8629.5
62.5°	2704.8	2746.7	3336.9	4636.0	6104.6	7344.3	7580.1	7735.5	7808.8	7372.3	5875.8
65°	1164.7	1196.1	1562.8	2421.9	3455.6	4054.6	4136.6	4323.5	4781.0	4265.9	3165.8
67.5°	778.8	799.7	986.6	1477.2	2036.0	2074.4	2062.2	2102.4	2201.9	1817.8	1430.1
70°	597.2	614.6	740.4	1082.6	1463.3	1252.0	1185.6	1075.6	1168.2	1190.9	1159.4
72.5°	433.0	447.0	541.3	738.6	916.7	799.7	789.3	845.1	970.9	1005.8	986.6
75°	279.4	286.4	344.0	405.1	473.2	513.4	534.3	635.6	763.1	789.3	766.6
77.5°	186.8	192.1	225.3	260.2	268.9	270.7	277.6	323.0	410.3	459.2	454.0
80°	97.8	97.8	110.0	110.0	125.7	150.2	157.2	186.8	227.0	251.4	253.2
82.5°	38.4	40.2	47.1	52.4	62.9	76.8	82.1	97.8	118.7	136.2	151.9
85°	15.7	17.5	19.2	22.7	27.9	34.9	36.7	41.9	55.9	69.8	78.6
87.5°	0.0	0.0	1.7	1.7	3.5	5.2	5.2	7.0	8.7	15.7	21.0
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°	3855.5	3855.5	3855.5	3855.5	3855.5	3855.5	3855.5	3855.5	3855.5	3855.5	3855.5
2.5°	3867.7	3845.0	3867.7	3874.7	3893.9	3900.9	3888.7	3886.9	3886.9	3869.5	3864.2
5°	3893.9	3873.0	3895.7	3906.2	3934.1	3951.6	3955.0	3969.0	3977.7	3970.8	3969.0
7.5°	3958.5	3932.3	3956.8	3972.5	4009.2	4037.1	4049.3	4080.8	4103.5	4100.0	4098.2
10°	4072.0	4037.1	4065.1	4091.2	4131.4	4164.6	4166.3	4183.8	4206.5	4199.5	4196.0
12.5°	4203.0	4169.8	4201.3	4227.4	4274.6	4288.6	4265.9	4258.9	4262.4	4253.6	4246.7
15°	4363.6	4316.5	4344.4	4374.1	4400.3	4384.6	4335.7	4316.5	4314.8	4302.5	4295.5
17.5°	4524.3	4464.9	4485.9	4501.6	4489.4	4440.5	4379.4	4346.2	4330.5	4306.0	4299.0
20°	4683.2	4608.1	4604.6	4592.4	4536.5	4447.5	4365.4	4299.0	4258.9	4225.7	4213.5
22.5°	4864.8	4760.0	4707.6	4651.8	4529.5	4384.6	4260.6	4166.3	4101.7	4059.8	4045.8
25°	5060.4	4911.9	4803.7	4691.9	4459.7	4250.1	4077.3	3948.1	3871.2	3825.8	3810.1
27.5°	5254.2	5049.9	4887.5	4697.2	4320.0	4056.3	3824.1	3649.5	3572.6	3536.0	3523.7
30°	5516.1	5233.2	4987.0	4629.1	4136.6	3787.4	3497.6	3321.2	3270.6	3244.4	3233.9
32.5°	5818.2	5465.5	5119.7	4485.9	3902.7	3473.1	3167.5	3045.3	3010.4	2959.7	2958.0
35°	6216.3	5797.2	5245.5	4274.6	3607.6	3136.1	2914.3	2827.0	2764.2	2683.8	2676.9
37.5°	6680.8	6211.1	5313.6	4005.7	3263.6	2858.5	2725.8	2628.0	2526.7	2420.2	2406.2
40°	7161.0	6694.8	5318.8	3687.9	2926.6	2675.1	2563.4	2435.9	2310.2	2191.4	2175.7
42.5°	7665.6	7145.3	5226.3	3321.2	2650.7	2516.2	2402.7	2242.1	2100.6	2020.3	2011.6
45°	8116.1	7508.5	5016.7	2935.3	2446.4	2383.5	2238.6	2065.7	1990.6	1933.0	1920.8
47.5°	8470.6	7749.4	4733.8	2589.6	2280.5	2247.3	2058.7	1969.7	1912.0	1859.7	1847.4
50°	8645.2	7803.6	4365.4	2308.4	2126.8	2086.7	1957.4	1889.3	1850.9	1809.0	1798.5
52.5°	8861.8	7864.7	4047.6	2072.7	1976.7	1922.5	1873.6	1819.5	1791.6	1765.4	1756.6
55°	9359.4	8095.2	3880.0	1884.1	1833.5	1809.0	1802.0	1756.6	1747.9	1730.4	1714.7
57.5°	9562.0	7946.8	3483.6	1730.4	1720.0	1723.5	1740.9	1699.0	1690.3	1669.3	1658.9
60°	7690.1	6006.8	2359.1	1597.7	1625.7	1648.4	1665.8	1623.9	1611.7	1608.2	1594.2
62.5°	4927.7	3694.9	1646.6	1473.8	1515.7	1543.6	1554.1	1513.9	1505.2	1533.1	1534.9
65°	2565.1	2013.3	1335.8	1341.0	1376.0	1417.9	1438.8	1424.9	1421.4	1451.1	1452.8
67.5°	1309.6	1231.0	1164.7	1183.9	1211.8	1266.0	1314.9	1376.0	1396.9	1400.4	1402.2
70°	1115.8	1080.9	1047.7	1059.9	1089.6	1119.3	1166.4	1196.1	1161.2	1152.5	1149.0
72.5°	949.9	923.7	908.0	922.0	937.7	932.4	918.5	932.4	937.7	939.4	941.2
75°	738.6	719.4	707.2	708.9	708.9	689.7	663.5	647.8	630.4	616.4	616.4
77.5°	452.3	455.7	468.0	466.2	464.5	457.5	431.3	417.3	375.4	363.2	363.2
80°	258.4	263.7	275.9	279.4	279.4	270.7	244.5	228.7	209.5	200.8	199.1
82.5°	157.2	164.1	171.1	174.6	176.4	165.9	143.2	131.0	120.5	111.8	111.8
85°	82.1	85.6	92.5	94.3	89.1	78.6	66.4	61.1	50.6	48.9	48.9
87.5°	22.7	24.4	27.9	22.7	21.0	15.7	8.7	7.0	3.5	1.7	1.7
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)