

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: P640672

Luminaire Tested: GWS-SA5E-735-U-SL2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640672  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5E-735-U-SL2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (80) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36385.1 lumens  
Efficiency: N/A  
Efficacy: 135.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G5  
  
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

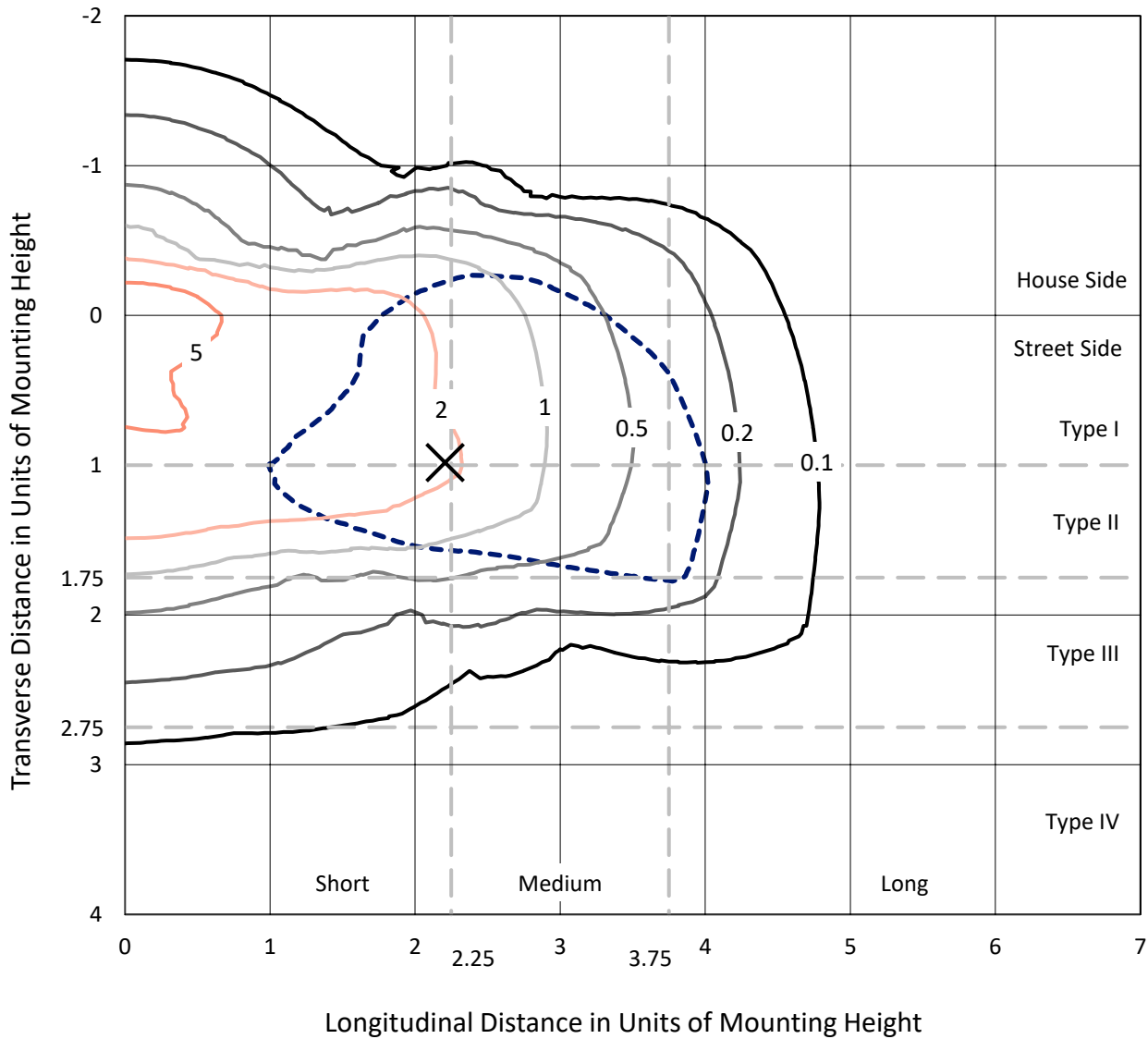


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### Iso-Footcandle Lines of Horizontal Illumination

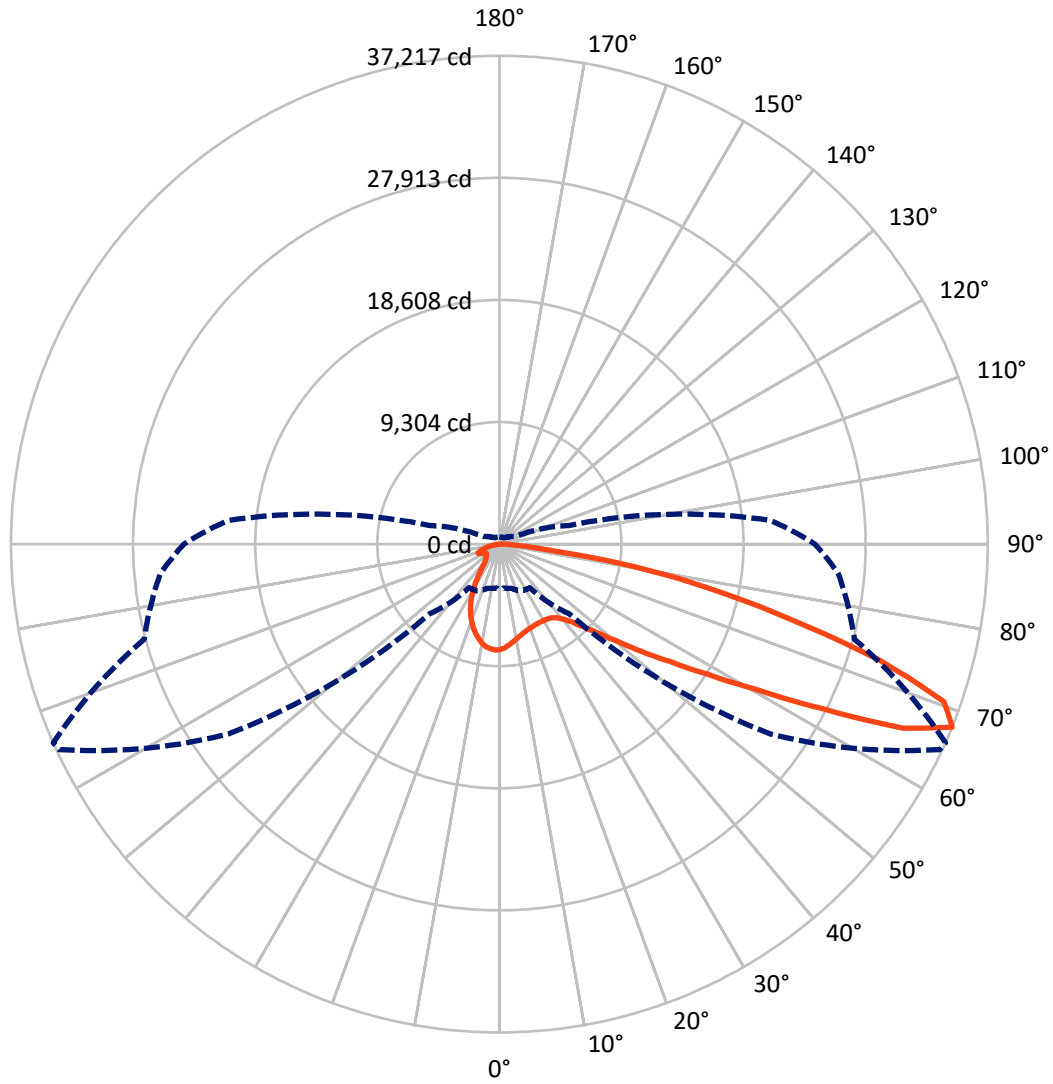
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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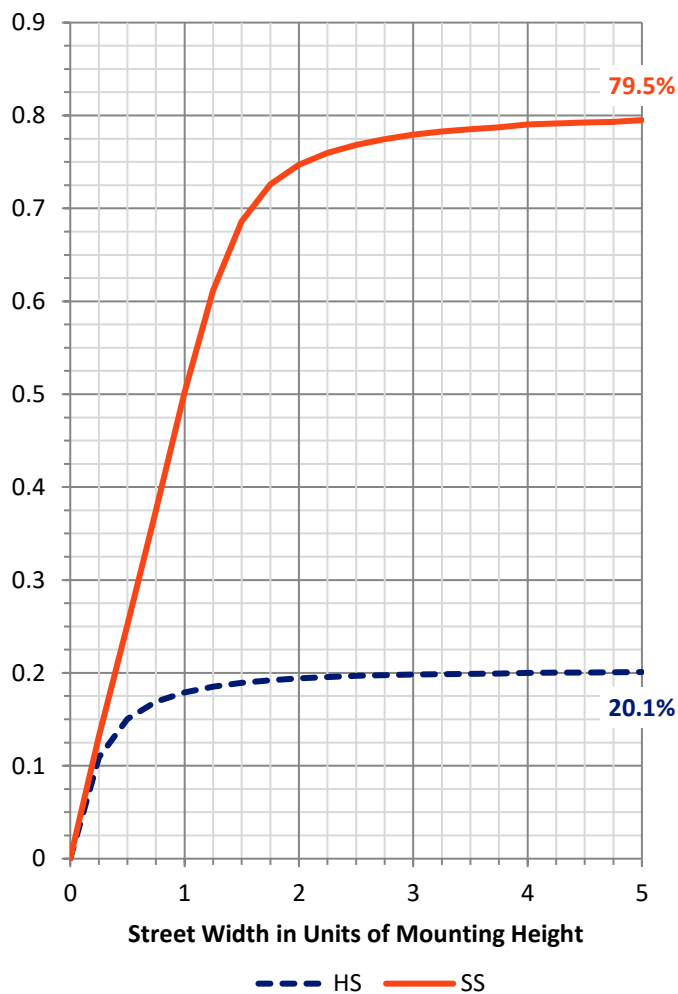
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7383.4	0.0	7383.4
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	29001.7	0.0	29001.7
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	36385.1	0.0	36385.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	705.6	1.9
10°-20°	1734.1	4.8
20°-30°	2383.6	6.6
30°-40°	3258.8	9.0
40°-50°	4938.0	13.6
50°-60°	7676.2	21.1
60°-70°	9345.6	25.7
70°-80°	5692.9	15.6
80°-90°	650.3	1.8
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°	36385.1	100.0
0°-180°	36385.1	100.0

**Coefficient of Utilization**



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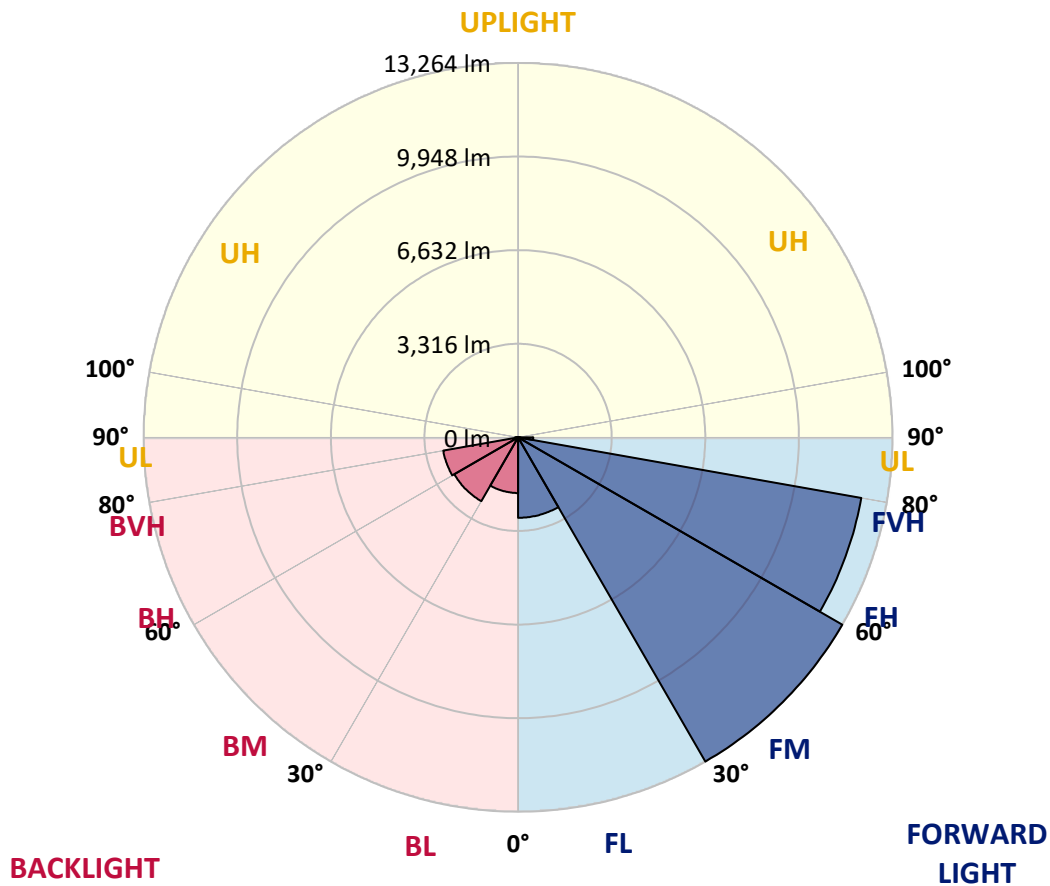
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2850.9	7.8			
FM (30°-60°)	13263.8	36.5			
FH (60°-80°)	12346.4	33.9			G5
FVH (80°-90°)	540.6	1.5			G4/750
BL (0°-30°)	1972.4	5.4	B3/2500		
BM (30°-60°)	2609.2	7.2	B3/5000		
BH (60°-80°)	2692.1	7.4	B4/5000		G4/5000
BVH (80°-90°)	109.6	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	8040.1	8040.1	8040.1	8040.1	8040.1	8040.1	8040.1	8040.1	8040.1	8040.1	8040.1
2.5°	7530.4	7557.0	7541.1	7641.9	7647.2	7774.6	7846.3	7907.4	7912.7	7992.3	8045.4
5°	7015.5	7031.4	7031.4	7127.0	7190.7	7360.6	7525.1	7700.3	7713.6	7904.7	8050.7
7.5°	6598.8	6614.7	6604.1	6731.5	6813.8	7002.2	7211.9	7480.0	7506.5	7814.5	8069.3
10°	6272.3	6267.0	6293.5	6410.3	6516.5	6742.1	6975.7	7280.9	7320.7	7710.9	8090.5
12.5°	6049.3	6054.6	6070.5	6192.6	6306.8	6529.7	6771.3	7103.1	7145.6	7591.5	8079.9
15°	5943.1	5932.5	5945.8	6057.3	6166.1	6362.5	6612.0	6954.4	6996.9	7485.3	8082.5
17.5°	5919.2	5911.3	5908.6	5988.2	6070.5	6253.7	6492.6	6840.3	6885.4	7416.3	8098.5
20°	5993.6	5982.9	5953.7	5988.2	6022.8	6176.7	6407.6	6758.0	6808.4	7371.2	8130.3
22.5°	6197.9	6179.4	6134.2	6091.8	6046.6	6139.5	6354.6	6697.0	6747.4	7342.0	8162.2
25°	6508.5	6492.6	6444.8	6349.2	6184.7	6168.7	6343.9	6670.4	6720.9	7320.7	8175.4
27.5°	6935.9	6912.0	6864.2	6726.2	6458.1	6277.6	6383.7	6667.8	6715.5	7296.9	8162.2
30°	7442.8	7426.9	7400.4	7233.1	6874.8	6508.5	6474.0	6689.0	6726.2	7283.6	8135.6
32.5°	7957.8	7941.9	7963.1	7883.5	7442.8	6890.7	6670.4	6747.4	6773.9	7280.9	8111.7
35°	8411.7	8430.3	8584.2	8597.5	8164.8	7408.3	6981.0	6882.8	6888.1	7334.0	8122.4
37.5°	8886.8	8958.5	9160.2	9332.8	8971.8	8093.2	7442.8	7137.6	7132.3	7469.4	8188.7
40°	9515.9	9547.8	9805.2	10129.1	9903.4	9032.8	8098.5	7554.3	7517.2	7745.4	8366.6
42.5°	10129.1	10206.0	10617.5	10989.1	10914.8	10091.9	8924.0	8178.1	8111.7	8233.8	8732.9
45°	10909.4	10983.8	11445.6	11923.4	12058.8	11289.0	9980.4	9064.7	8998.3	8969.1	9404.4
47.5°	11689.8	11766.8	12180.9	12871.0	13346.2	12786.1	11355.4	10235.2	10126.4	10012.3	10418.4
50°	12215.4	12305.6	12701.1	13529.3	14644.1	14654.8	12985.2	11769.5	11631.4	11450.9	11846.4
52.5°	12196.8	12255.2	12632.1	13587.7	15578.5	16802.1	15167.0	13723.1	13611.6	13218.7	13563.8
55°	11238.6	11326.2	11705.8	12900.2	15679.3	18838.0	18373.5	16027.1	15828.0	15124.6	15504.2
57.5°	9314.2	9388.5	9770.7	11243.9	14784.8	19881.2	22445.3	18962.8	18689.4	17200.3	17638.3
60°	7031.4	6941.2	7121.7	8411.7	12645.4	19907.7	26039.3	22944.3	22487.8	19419.3	19785.6
62.5°	5276.9	5186.6	5226.4	5590.1	8573.6	18299.2	28088.5	28391.1	27637.3	21925.1	21853.4
65°	4170.0	4119.6	4233.7	4483.2	4998.2	13935.4	28104.4	34281.1	33806.0	24828.9	23974.2
67.5°	3397.6	3365.7	3482.5	3944.4	4053.2	7488.0	25200.5	37031.1	37216.9	28008.9	25941.1
70°	2736.7	2688.9	2872.0	3479.9	3769.2	4531.0	18052.3	35629.6	35929.5	29904.1	25386.4
72.5°	1889.9	1892.6	1985.5	2818.9	3639.1	3912.5	10211.3	29667.8	30318.2	28186.7	22317.9
75°	1274.1	1284.7	1311.3	1860.7	3352.5	3795.7	5441.4	22461.2	22920.4	23297.4	18447.8
77.5°	769.8	775.1	836.1	1125.5	2312.0	3543.6	3686.9	16281.9	16642.9	15358.2	11435.0
80°	445.9	464.5	520.3	753.8	1560.8	2662.3	2853.4	9983.1	10391.8	6827.0	3633.8
82.5°	196.4	209.7	284.0	438.0	910.4	2264.2	2227.0	3944.4	3886.0	1903.2	1260.8
85°	34.5	42.5	61.1	138.0	334.5	1194.5	1728.0	1741.3	1637.7	722.0	522.9
87.5°	0.0	0.0	0.0	0.0	0.0	8.0	260.1	467.2	464.5	204.4	180.5
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°	8040.1	8040.1	8040.1	8040.1	8040.1	8040.1	8040.1	8040.1	8040.1	8040.1	8040.1
2.5°	8079.9	8008.2	8071.9	8079.9	8066.6	8056.0	7976.4	7907.4	7899.4	7825.1	7825.1
5°	8109.1	8042.7	8074.6	8013.5	7918.0	7819.8	7649.9	7533.1	7480.0	7384.4	7384.4
7.5°	8148.9	8079.9	8042.7	7891.4	7668.5	7453.5	7180.1	6951.8	6858.9	6723.5	6718.2
10°	8186.1	8098.5	7971.1	7676.4	7320.7	6978.3	6580.2	6256.3	6036.0	5874.1	5874.1
12.5°	8183.4	8069.3	7817.1	7381.8	6890.7	6394.4	5863.5	5375.1	5083.1	4830.9	4815.0
15°	8178.1	8021.5	7620.7	7039.4	6389.1	5701.6	4979.6	4342.5	3909.9	3663.0	3641.8
17.5°	8172.8	7960.4	7400.4	6649.2	5778.6	4841.6	3888.6	3198.5	2837.5	2686.2	2691.5
20°	8172.8	7891.4	7164.1	6200.6	5075.1	3811.7	2853.4	2351.8	2261.5	2269.5	2277.4
22.5°	8148.9	7806.5	6901.4	5712.2	4292.1	2803.0	2104.9	1935.0	1982.8	2057.1	2067.8
25°	8093.2	7665.8	6596.1	5170.7	3360.4	2041.2	1717.4	1685.5	1773.1	1866.0	1892.6
27.5°	8005.6	7503.9	6253.7	4536.3	2473.9	1640.4	1510.3	1507.7	1576.7	1645.7	1669.6
30°	7912.7	7323.4	5892.7	3830.2	1791.7	1428.0	1377.6	1377.6	1412.1	1454.6	1449.3
32.5°	7803.8	7140.2	5505.2	3095.0	1459.9	1308.6	1292.7	1284.7	1290.0	1305.9	1305.9
35°	7710.9	6978.3	5107.0	2317.3	1308.6	1242.2	1226.3	1207.7	1199.8	1189.2	1194.5
37.5°	7676.4	6850.9	4695.6	1746.6	1234.3	1194.5	1167.9	1141.4	1122.8	1117.5	1114.8
40°	7732.2	6797.8	4284.1	1438.7	1181.2	1144.0	1114.8	1080.3	1064.4	1064.4	1064.4
42.5°	7949.8	6837.6	3864.8	1300.6	1144.0	1101.6	1059.1	1027.2	1021.9	1027.2	1029.9
45°	8348.0	6991.6	3429.4	1231.6	1112.2	1059.1	1008.7	984.8	984.8	990.1	990.1
47.5°	9059.4	7395.1	2999.4	1189.2	1080.3	1024.6	971.5	947.6	945.0	950.3	950.3
50°	10291.0	8122.4	2611.9	1160.0	1056.4	998.0	945.0	913.1	905.1	902.5	902.5
52.5°	11843.8	9383.2	2365.0	1138.7	1027.2	968.8	915.8	873.3	857.4	849.4	849.4
55°	13720.4	11063.4	2365.0	1122.8	990.1	934.3	873.3	830.8	806.9	796.3	796.3
57.5°	15846.6	13019.7	2773.8	1109.5	960.9	894.5	828.2	785.7	759.1	743.2	743.2
60°	18009.9	15087.4	3785.1	1090.9	934.3	844.1	777.7	737.9	703.4	684.8	682.2
62.5°	20252.8	17364.9	5117.6	1101.6	915.8	796.3	724.6	679.5	650.3	631.7	629.1
65°	22307.3	19533.5	6282.9	1183.8	918.4	753.8	663.6	623.8	599.9	576.0	573.3
67.5°	24051.2	20730.6	5465.3	1351.1	974.2	703.4	602.5	562.7	541.5	525.6	522.9
70°	22830.2	18904.4	3100.3	1454.6	1051.1	650.3	533.5	507.0	485.7	475.1	472.5
72.5°	19522.9	16005.8	2073.1	1284.7	958.2	581.3	469.8	448.6	432.7	419.4	416.7
75°	15814.7	12693.2	1584.7	1053.8	745.9	472.5	403.5	387.5	371.6	358.3	355.7
77.5°	9356.6	7334.0	1167.9	833.5	525.6	369.0	334.5	321.2	305.3	294.6	292.0
80°	2986.2	2548.2	740.6	573.3	347.7	284.0	257.5	246.9	230.9	217.7	215.0
82.5°	1138.7	984.8	392.8	292.0	230.9	193.8	172.5	161.9	151.3	138.0	135.4
85°	504.3	472.5	217.7	156.6	124.8	95.6	84.9	79.6	66.4	55.7	53.1
87.5°	177.8	177.8	92.9	45.1	26.5	13.3	8.0	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)