

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: P633850

Luminaire Tested: GWS-SA2F-750-U-SL2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633850  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2F-750-U-SL2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

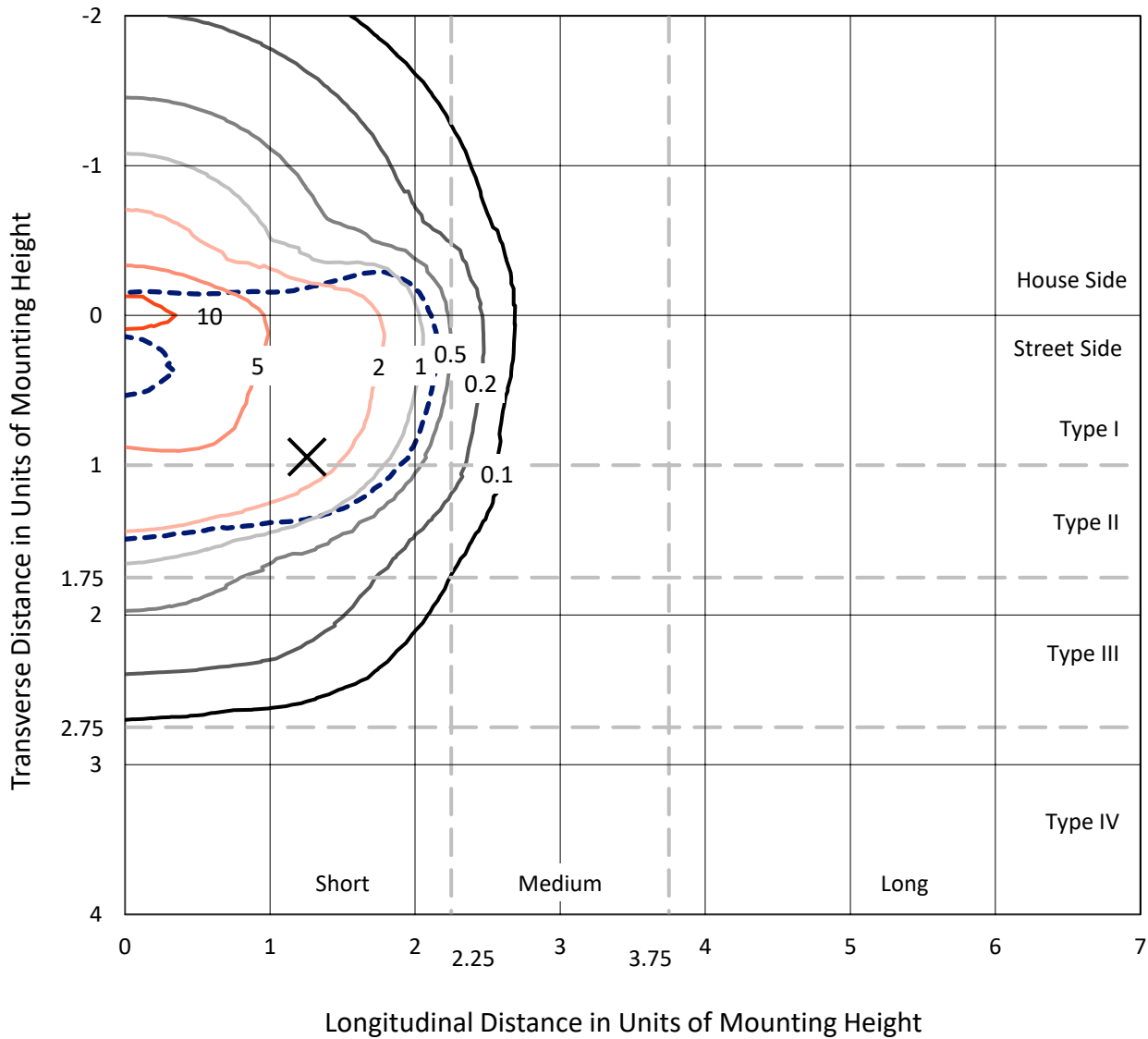
Lumens per Lamp: N/A  
Luminaire Lumens: 14133.7 lumens  
Efficiency: N/A  
Efficacy: 113.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): 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

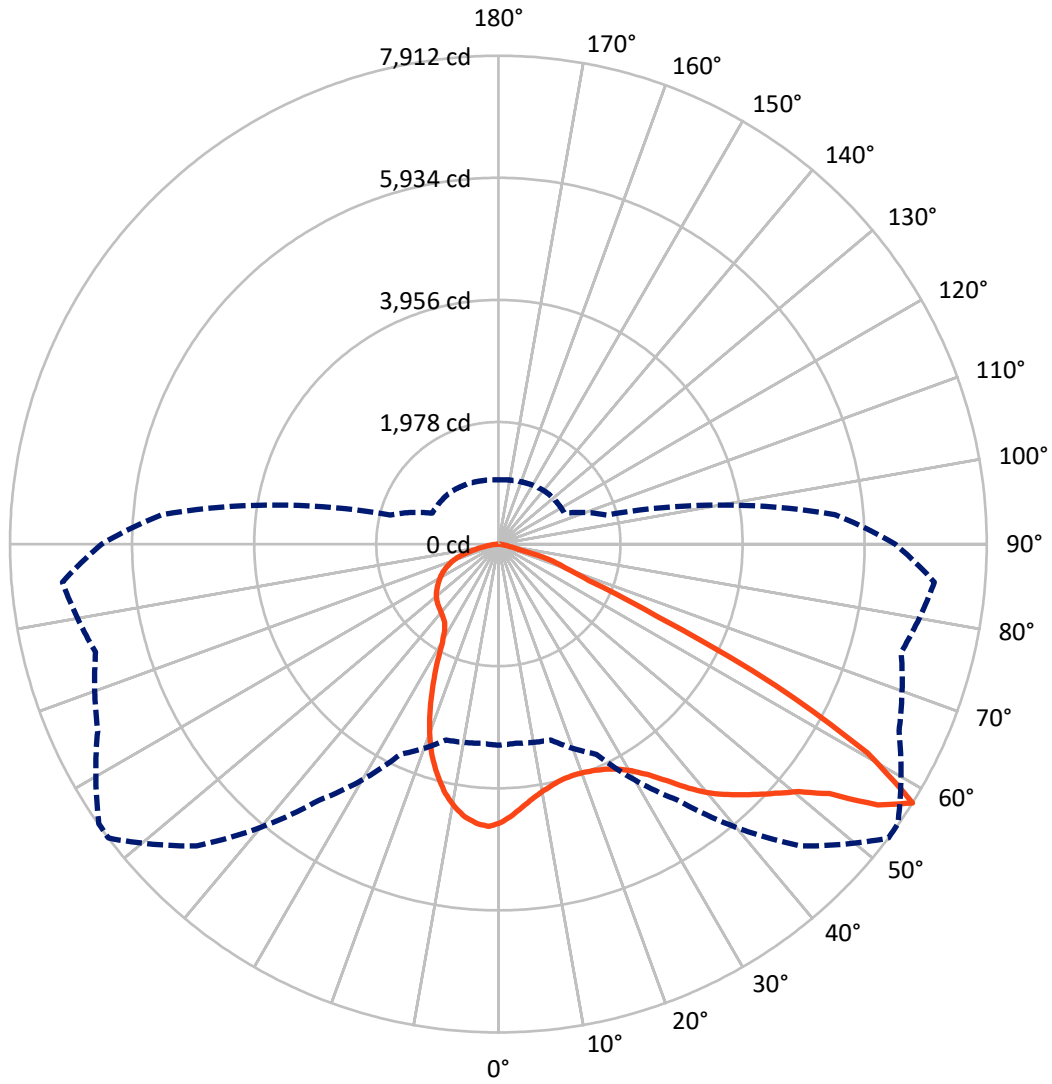
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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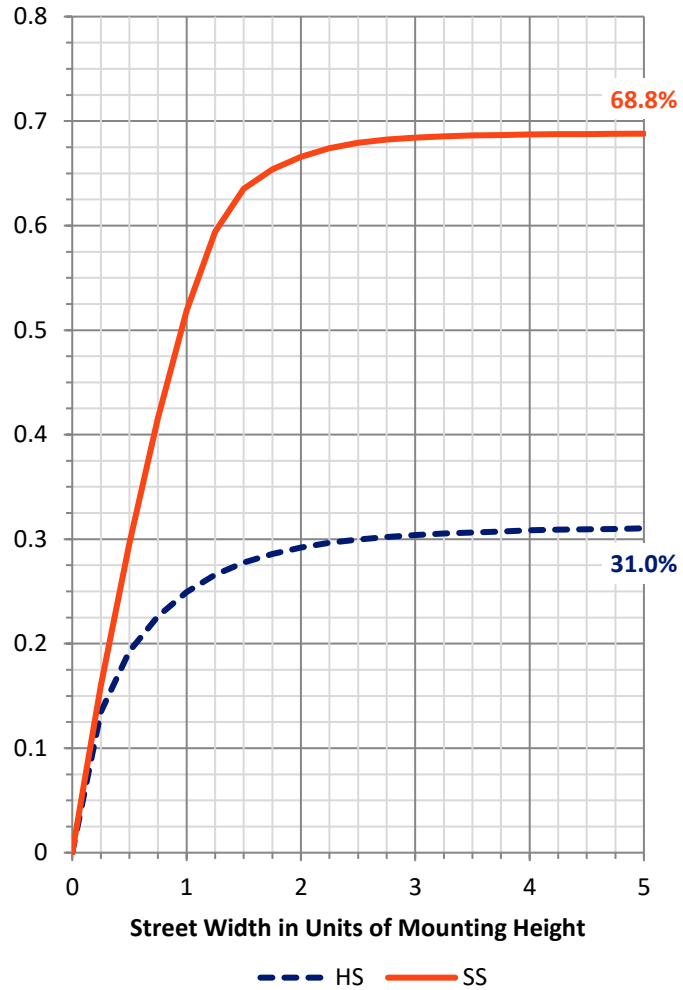
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4419.1	0.0	4419.1
	% Fixture	31.3	0.0	31.3
<b>Street Side</b>	Lumens	9714.6	0.0	9714.6
	% Fixture	68.7	0.0	68.7
<b>Total</b>	Lumens	14133.7	0.0	14133.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	408.1	2.9
10°-20°	1070.8	7.6
20°-30°	1577.6	11.2
30°-40°	2208.2	15.6
40°-50°	2902.9	20.5
50°-60°	3403.6	24.1
60°-70°	2005.1	14.2
70°-80°	498.8	3.5
80°-90°	58.5	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°	14133.7	100.0
0°-180°	14133.7	100.0

**Coefficient of Utilization**



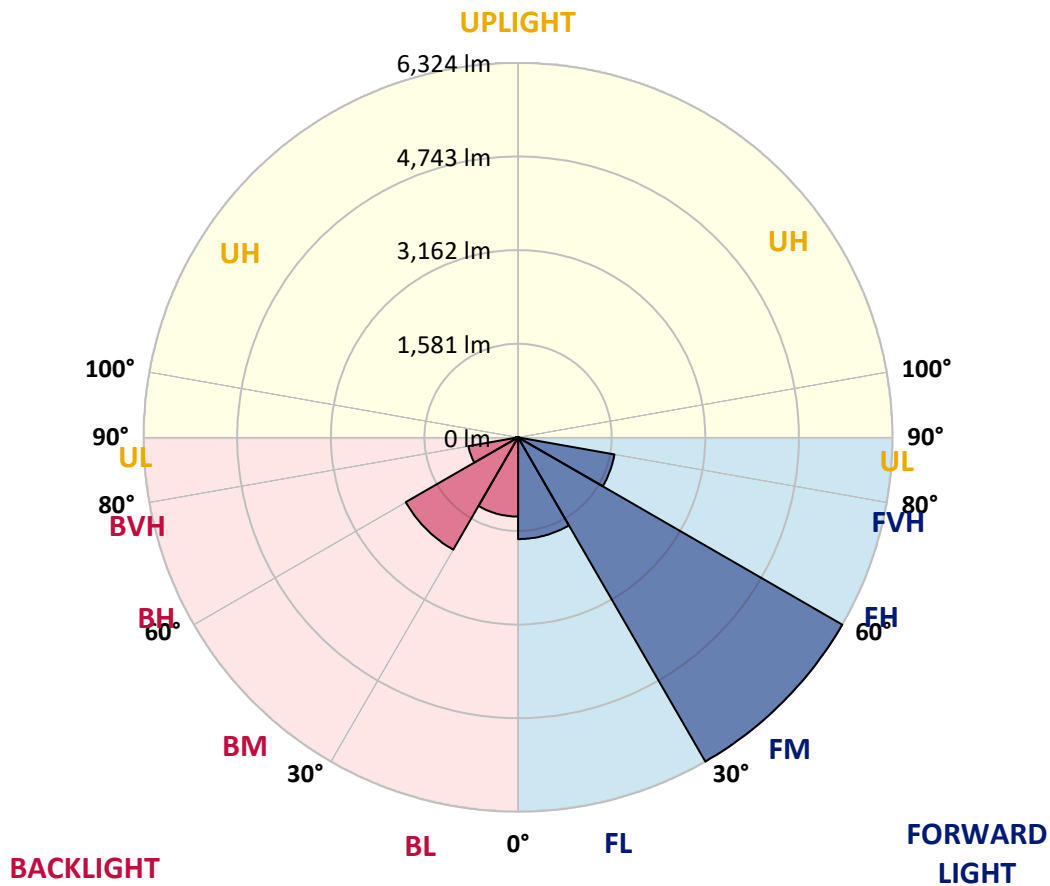
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1718.4	12.2			
FM (30°-60°)	6323.5	44.7			
FH (60°-80°)	1653.1	11.7			G1/1800
FVH (80°-90°)	19.6	0.1			G1/100
BL (0°-30°)	1338.1	9.5	B3/2500		
BM (30°-60°)	2191.2	15.5	B2/2500		
BH (60°-80°)	850.8	6.0	B2/1000		G2/1000
BVH (80°-90°)	38.9	0.3			G1/100
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°	53°	55°	65°	75°	85°
0°	4513.3	4513.3	4513.3	4513.3	4513.3	4513.3	4513.3	4513.3	4513.3	4513.3	4513.3
2.5°	4253.9	4265.8	4268.2	4305.1	4307.5	4361.0	4396.7	4389.6	4426.4	4471.6	4507.3
5°	4050.5	4051.7	4063.6	4107.6	4131.4	4201.6	4261.1	4261.1	4332.5	4425.2	4504.9
7.5°	3882.8	3881.6	3892.3	3941.1	3980.3	4064.8	4145.7	4155.2	4255.1	4390.7	4520.4
10°	3727.0	3735.3	3747.2	3806.7	3856.6	3961.3	4057.7	4073.1	4199.2	4367.0	4541.8
12.5°	3627.0	3628.2	3646.1	3712.7	3776.9	3888.7	3989.9	4008.9	4154.0	4344.4	4557.3
15°	3562.8	3564.0	3583.0	3656.8	3731.7	3844.7	3948.2	3969.6	4127.8	4340.8	4587.0
17.5°	3534.2	3533.1	3550.9	3624.7	3706.7	3824.5	3935.1	3961.3	4139.7	4368.1	4639.4
20°	3534.2	3535.4	3545.0	3611.6	3694.8	3819.7	3948.2	3980.3	4186.1	4430.0	4720.3
22.5°	3584.2	3589.0	3593.7	3638.9	3704.4	3826.9	3982.7	4025.5	4286.1	4533.5	4826.1
25°	3681.8	3682.9	3687.7	3724.6	3754.3	3847.1	4039.8	4104.1	4441.9	4684.6	4959.4
27.5°	3812.6	3829.3	3834.0	3857.8	3857.8	3897.1	4129.0	4221.8	4652.5	4902.3	5129.5
30°	3995.8	4001.8	4010.1	4036.3	4007.7	3991.0	4259.9	4378.8	4896.3	5165.2	5334.1
32.5°	4156.4	4169.5	4214.7	4257.5	4206.4	4154.0	4452.6	4593.0	5130.7	5438.8	5551.8
35°	4293.2	4325.3	4412.2	4507.3	4471.6	4419.3	4708.4	4854.7	5323.4	5635.0	5744.5
37.5°	4458.6	4483.5	4602.5	4757.1	4789.3	4764.3	5020.0	5124.7	5451.9	5685.0	5849.2
40°	4626.3	4664.3	4817.8	5031.9	5154.5	5172.3	5307.9	5378.1	5495.9	5587.5	5828.9
42.5°	4797.6	4863.0	5073.6	5323.4	5541.1	5581.5	5550.6	5580.3	5481.6	5453.0	5735.0
45°	5006.9	5084.3	5322.2	5641.0	5927.7	5990.7	5788.5	5761.1	5479.2	5401.9	5676.7
47.5°	5254.4	5331.7	5558.9	5930.1	6296.5	6342.8	6032.4	5982.4	5562.5	5480.4	5755.2
50°	5473.3	5526.8	5730.2	6145.4	6640.2	6667.6	6301.2	6240.5	5769.5	5698.1	6000.2
52.5°	5250.8	5244.9	5459.0	5970.5	6818.7	7148.2	6715.2	6656.9	6169.2	6059.7	6379.7
55°	4455.0	4387.2	4578.7	5081.9	6320.2	7575.3	7457.5	7340.9	6702.1	6423.7	6735.4
57.5°	3257.1	3238.0	3284.4	3756.7	5062.9	6913.8	7911.9	7901.2	7162.5	6756.8	7089.9
60°	2546.9	2518.3	2394.6	2407.7	3451.0	5400.7	6866.3	7181.5	7448.0	6956.7	7337.3
62.5°	2261.4	2240.0	2175.7	1998.5	2055.6	3621.1	5033.1	5322.2	6508.2	6144.2	6302.4
65°	1872.4	1866.5	1920.0	1912.8	1722.5	1999.7	2840.7	3132.2	4092.2	4143.3	4092.2
67.5°	1360.9	1350.2	1485.8	1753.4	1658.3	1509.6	1583.3	1684.4	2098.4	1884.3	1696.3
70°	885.0	869.6	948.1	1266.9	1484.6	1315.7	1140.8	1124.2	1153.9	717.3	775.6
72.5°	593.6	575.8	574.6	697.1	896.9	886.2	883.9	875.5	781.6	566.2	628.1
75°	330.7	316.4	312.9	301.0	321.2	327.1	348.5	360.4	390.2	429.4	475.8
77.5°	55.9	54.7	69.0	88.0	121.3	155.8	192.7	203.4	251.0	297.4	327.1
80°	30.9	32.1	41.6	51.2	67.8	92.8	119.0	126.1	154.6	179.6	203.4
82.5°	16.7	16.7	21.4	27.4	36.9	48.8	64.2	70.2	89.2	104.7	121.3
85°	5.9	5.9	8.3	10.7	15.5	20.2	25.0	28.5	39.3	53.5	60.7
87.5°	0.0	0.0	0.0	0.0	1.2	2.4	4.8	4.8	5.9	10.7	15.5
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°	4513.3	4513.3	4513.3	4513.3	4513.3	4513.3	4513.3	4513.3	4513.3	4513.3	4513.3
2.5°	4537.1	4504.9	4549.0	4569.2	4576.3	4581.1	4550.1	4528.7	4521.6	4499.0	4485.9
5°	4553.7	4532.3	4573.9	4573.9	4544.2	4513.3	4450.2	4406.2	4375.3	4338.4	4332.5
7.5°	4582.3	4566.8	4589.4	4543.0	4468.1	4384.8	4275.4	4189.7	4120.7	4075.5	4076.7
10°	4620.3	4601.3	4583.5	4480.0	4343.2	4189.7	4022.0	3897.1	3782.9	3730.5	3702.0
12.5°	4645.3	4618.0	4543.0	4371.7	4170.7	3964.9	3728.1	3542.6	3377.2	3302.3	3296.3
15°	4676.2	4626.3	4476.4	4231.3	3951.8	3671.0	3366.5	3108.4	2884.7	2768.2	2762.2
17.5°	4716.7	4634.6	4396.7	4070.7	3721.0	3307.0	2924.0	2599.2	2361.3	2270.9	2286.4
20°	4773.8	4644.1	4306.3	3892.3	3434.3	2893.1	2416.0	2117.5	2025.9	2019.9	2008.0
22.5°	4838.0	4650.1	4206.4	3692.5	3087.0	2451.7	1996.1	1868.8	1867.6	1897.4	1904.5
25°	4910.6	4654.8	4093.3	3459.3	2711.1	2011.6	1765.3	1727.3	1757.0	1812.9	1820.1
27.5°	5003.4	4664.3	3956.5	3203.5	2311.4	1738.0	1638.1	1628.5	1664.2	1716.6	1714.2
30°	5140.2	4698.8	3811.4	2909.7	1901.0	1608.3	1560.7	1561.9	1576.2	1601.2	1604.7
32.5°	5279.4	4752.4	3669.9	2579.0	1665.4	1534.6	1513.1	1510.8	1510.8	1521.5	1523.9
35°	5411.4	4813.0	3516.4	2234.0	1551.2	1491.7	1477.5	1470.3	1466.8	1464.4	1460.8
37.5°	5485.2	4842.8	3366.5	1893.8	1490.5	1463.2	1448.9	1439.4	1426.3	1416.8	1414.4
40°	5453.0	4808.3	3192.8	1639.2	1453.7	1435.8	1419.2	1406.1	1388.2	1379.9	1375.2
42.5°	5346.0	4701.2	3003.7	1519.1	1423.9	1406.1	1385.9	1364.4	1352.6	1345.4	1344.2
45°	5233.0	4571.6	2775.3	1448.9	1395.4	1374.0	1350.2	1326.4	1313.3	1309.7	1308.5
47.5°	5229.4	4507.3	2532.6	1393.0	1360.9	1339.5	1309.7	1285.9	1271.7	1266.9	1262.1
50°	5386.4	4572.8	2259.0	1344.2	1325.2	1302.6	1269.3	1243.1	1225.3	1219.3	1218.1
52.5°	5712.4	4819.0	2014.0	1295.5	1277.6	1251.4	1224.1	1197.9	1176.5	1165.8	1164.6
55°	6064.5	5131.9	1861.7	1245.5	1221.7	1199.1	1174.1	1145.6	1121.8	1105.1	1102.7
57.5°	6428.5	5473.3	1815.3	1182.4	1164.6	1149.1	1119.4	1088.5	1061.1	1045.6	1042.1
60°	6728.3	5767.1	1902.1	1115.8	1106.3	1086.1	1058.7	1029.0	1010.0	998.1	995.7
62.5°	5632.7	4695.3	1535.7	1043.3	1043.3	1021.9	990.9	969.5	956.4	948.1	945.7
65°	3574.7	2907.3	1048.0	970.7	969.5	941.0	914.8	900.5	894.6	881.5	879.1
67.5°	1557.2	1328.8	895.8	896.9	892.2	861.3	835.1	824.4	812.5	798.2	797.0
70°	807.7	823.2	801.8	814.9	806.5	769.7	744.7	728.0	703.0	688.8	690.0
72.5°	651.9	668.5	692.3	712.6	694.7	665.0	625.7	605.5	573.4	557.9	559.1
75°	497.2	515.1	537.7	559.1	544.8	508.0	483.0	462.7	425.9	408.0	411.6
77.5°	342.6	352.1	379.5	378.3	373.5	362.8	325.9	302.2	264.1	242.7	245.1
80°	212.9	218.9	232.0	237.9	235.5	221.3	191.5	173.7	151.1	138.0	139.2
82.5°	128.5	132.0	143.9	145.1	143.9	133.2	110.6	97.5	83.3	76.1	76.1
85°	65.4	67.8	74.9	74.9	67.8	57.1	51.2	45.2	36.9	33.3	33.3
87.5°	17.8	17.8	22.6	19.0	15.5	14.3	7.1	5.9	2.4	1.2	1.2
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)