

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: P633795

Luminaire Tested: GWS-SA2F-740-U-SL2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633795  
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-740-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) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

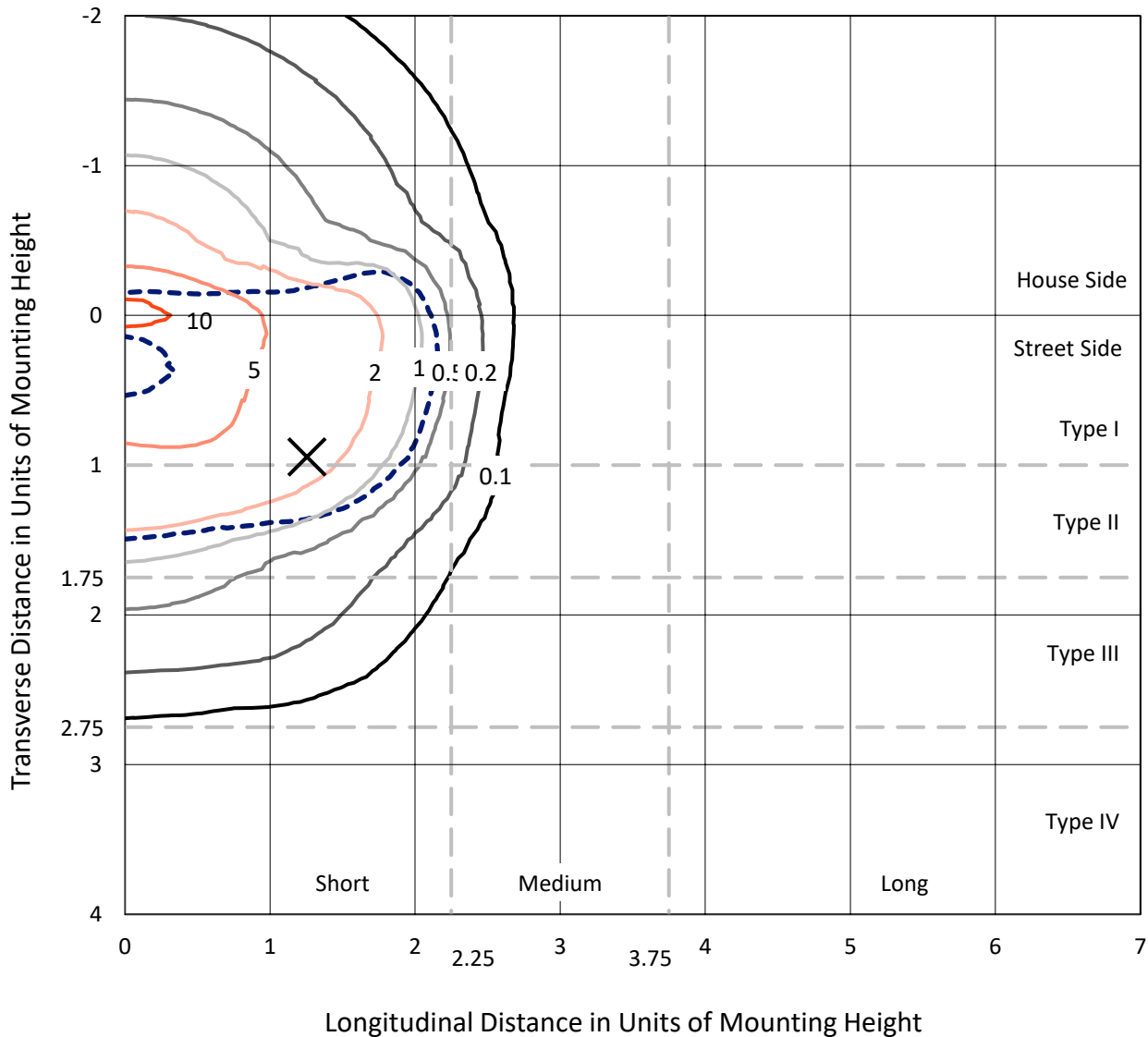
Lumens per Lamp: N/A  
Luminaire Lumens: 13817 lumens  
Efficiency: N/A  
Efficacy: 111.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

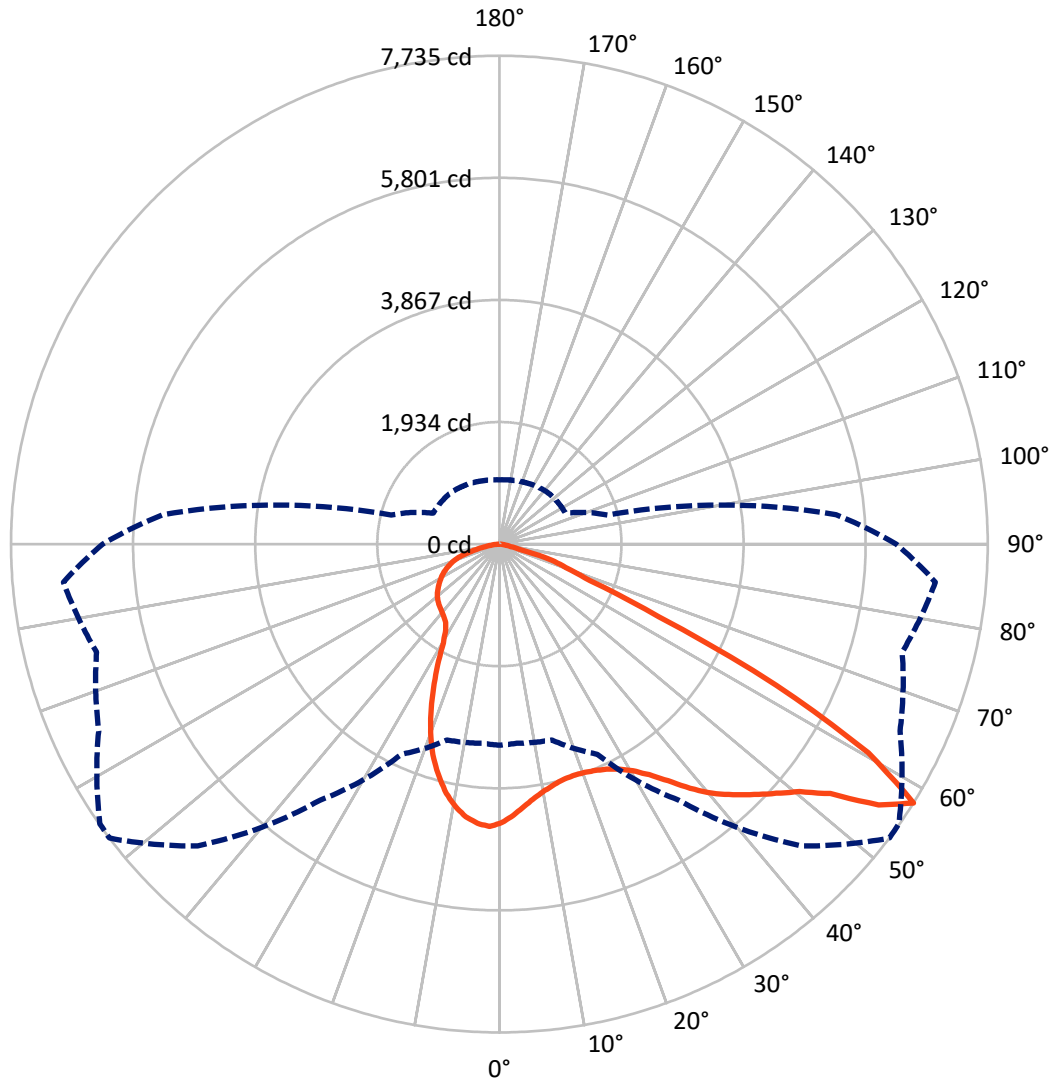
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11 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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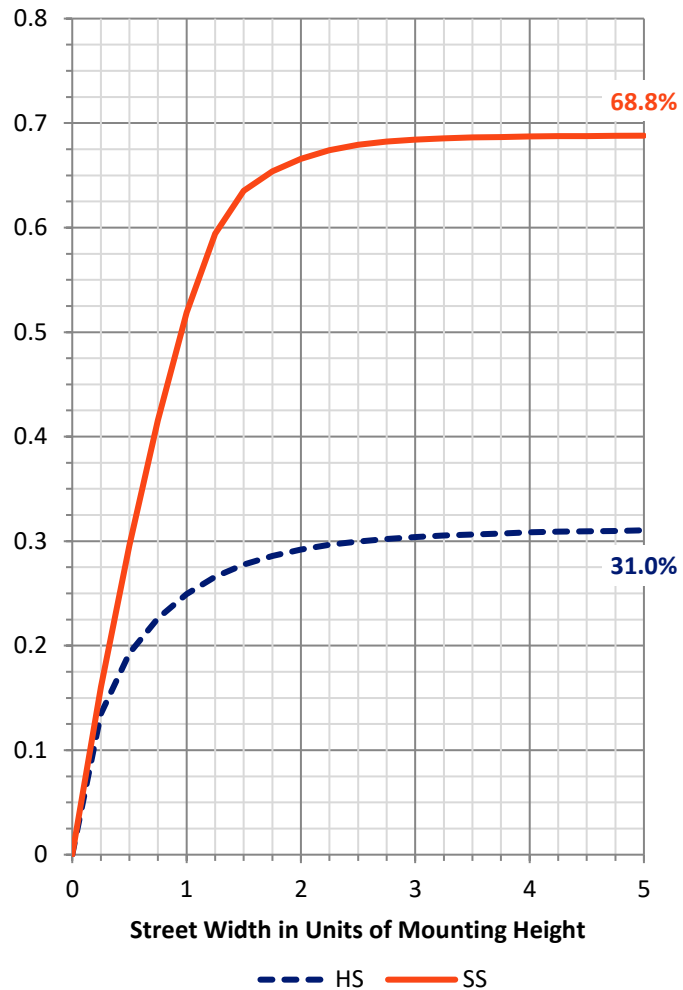
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4320.1	0.0	4320.1
	% Fixture	31.3	0.0	31.3
<b>Street Side</b>	Lumens	9496.9	0.0	9496.9
	% Fixture	68.7	0.0	68.7
<b>Total</b>	Lumens	13817.0	0.0	13817.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	399.0	2.9
10°-20°	1046.8	7.6
20°-30°	1542.3	11.2
30°-40°	2158.8	15.6
40°-50°	2837.8	20.5
50°-60°	3327.4	24.1
60°-70°	1960.2	14.2
70°-80°	487.6	3.5
80°-90°	57.2	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°	13817.0	100.0
0°-180°	13817.0	100.0

**Coefficient of Utilization**



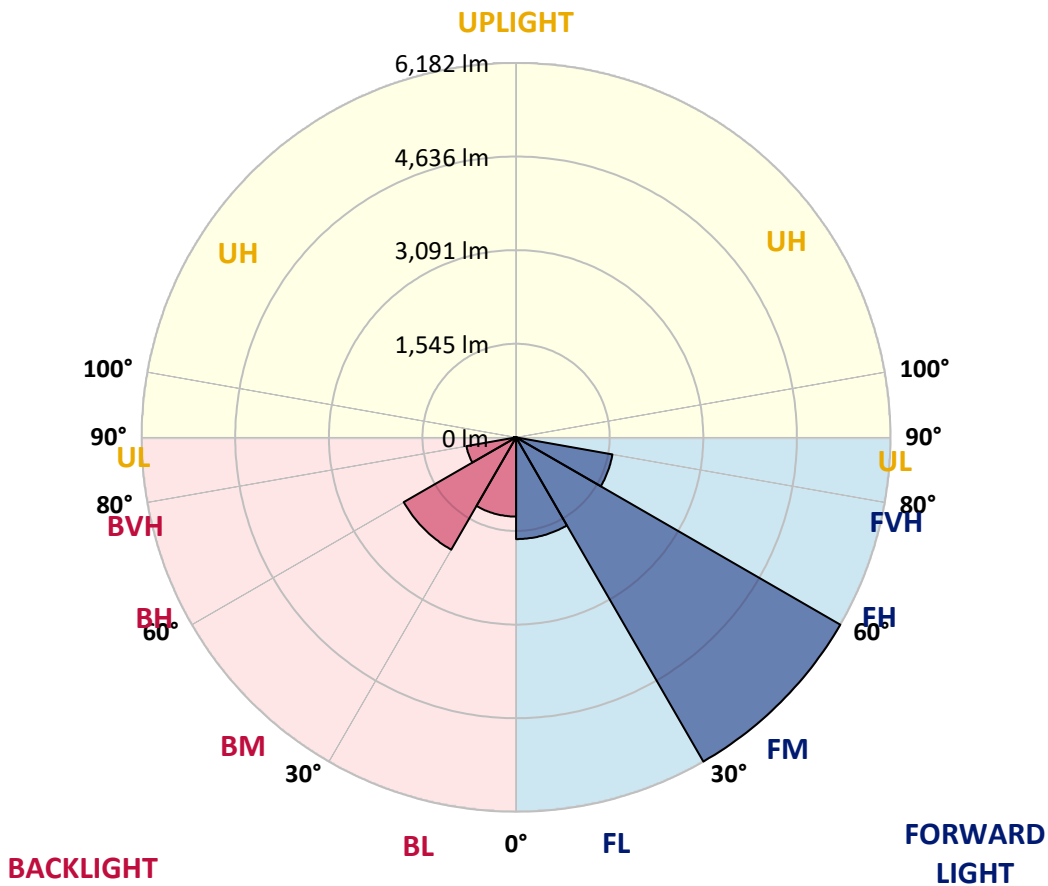
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1679.9	12.2			
FM (30°-60°)	6181.8	44.7			
FH (60°-80°)	1616.1	11.7			G1/1800
FVH (80°-90°)	19.1	0.1			G1/100
BL (0°-30°)	1308.1	9.5	B3/2500		
BM (30°-60°)	2142.1	15.5	B2/2500		
BH (60°-80°)	831.8	6.0	B2/1000		G2/1000
BVH (80°-90°)	38.1	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°	4412.1	4412.1	4412.1	4412.1	4412.1	4412.1	4412.1	4412.1	4412.1	4412.1	4412.1
2.5°	4158.6	4170.3	4172.6	4208.6	4211.0	4263.3	4298.2	4291.2	4327.2	4371.4	4406.3
5°	3959.8	3960.9	3972.6	4015.6	4038.8	4107.5	4165.6	4165.6	4235.4	4326.1	4404.0
7.5°	3795.8	3794.6	3805.1	3852.8	3891.2	3973.7	4052.8	4062.1	4159.8	4292.4	4419.1
10°	3643.4	3651.6	3663.2	3721.4	3770.2	3872.5	3966.7	3981.9	4105.1	4269.1	4440.1
12.5°	3545.8	3546.9	3564.4	3629.5	3692.3	3801.6	3900.5	3919.1	4060.9	4247.0	4455.2
15°	3483.0	3484.1	3502.7	3574.8	3648.1	3758.6	3859.8	3880.7	4035.4	4243.5	4484.2
17.5°	3455.1	3453.9	3471.3	3543.4	3623.7	3738.8	3847.0	3872.5	4047.0	4270.3	4535.4
20°	3455.1	3456.2	3465.5	3530.6	3612.0	3734.2	3859.8	3891.2	4092.3	4330.7	4614.5
22.5°	3503.9	3508.5	3513.2	3557.4	3621.4	3741.1	3893.5	3935.3	4190.0	4431.9	4718.0
25°	3599.3	3600.4	3605.1	3641.1	3670.2	3760.9	3949.3	4012.1	4342.4	4579.6	4848.2
27.5°	3727.2	3743.5	3748.1	3771.4	3771.4	3809.7	4036.5	4127.2	4548.2	4792.4	5014.5
30°	3906.3	3912.1	3920.2	3945.8	3917.9	3901.6	4164.4	4280.7	4786.6	5049.4	5214.6
32.5°	4063.3	4076.1	4120.2	4162.1	4112.1	4060.9	4352.8	4490.1	5015.7	5316.9	5427.4
35°	4197.0	4228.4	4313.3	4406.3	4371.4	4320.3	4602.9	4745.9	5204.1	5508.8	5615.8
37.5°	4358.6	4383.1	4499.4	4650.5	4681.9	4657.5	4907.5	5009.9	5329.7	5557.6	5718.1
40°	4522.6	4559.8	4709.9	4919.2	5039.0	5056.4	5189.0	5257.6	5372.7	5462.3	5698.3
42.5°	4690.1	4754.0	4959.9	5204.1	5416.9	5456.4	5426.2	5455.3	5358.8	5330.9	5606.5
45°	4894.8	4970.3	5202.9	5514.6	5794.9	5856.5	5658.8	5632.1	5356.4	5280.8	5549.5
47.5°	5136.6	5212.2	5434.4	5797.2	6155.4	6200.7	5897.2	5848.4	5437.8	5357.6	5626.2
50°	5350.6	5403.0	5601.8	6007.7	6491.5	6518.2	6160.0	6100.7	5640.2	5570.4	5865.8
52.5°	5133.2	5127.3	5336.7	5836.7	6665.9	6988.0	6564.7	6507.7	6030.9	5923.9	6236.8
55°	4355.2	4288.9	4476.1	4968.0	6178.6	7405.5	7290.4	7176.4	6551.9	6279.8	6584.5
57.5°	3184.1	3165.5	3210.8	3672.5	4949.4	6758.9	7734.6	7724.2	7002.0	6605.4	6931.0
60°	2489.8	2461.9	2341.0	2353.8	3373.6	5279.7	6712.4	7020.6	7281.1	6800.8	7172.9
62.5°	2210.7	2189.8	2127.0	1953.7	2009.5	3539.9	4920.3	5202.9	6362.4	6006.5	6161.2
65°	1830.4	1824.6	1877.0	1870.0	1683.9	1954.9	2777.1	3062.0	4000.5	4050.5	4000.5
67.5°	1330.4	1319.9	1452.5	1714.2	1621.1	1475.8	1547.9	1646.7	2051.4	1842.1	1658.3
70°	865.2	850.1	926.9	1238.5	1451.3	1286.2	1115.2	1099.0	1128.0	701.2	758.2
72.5°	580.3	562.9	561.7	681.5	876.8	866.4	864.1	855.9	764.0	553.6	614.0
75°	323.3	309.3	305.8	294.2	314.0	319.8	340.7	352.4	381.4	419.8	465.2
77.5°	54.7	53.5	67.4	86.1	118.6	152.3	188.4	198.9	245.4	290.7	319.8
80°	30.2	31.4	40.7	50.0	66.3	90.7	116.3	123.3	151.2	175.6	198.9
82.5°	16.3	16.3	20.9	26.7	36.1	47.7	62.8	68.6	87.2	102.3	118.6
85°	5.8	5.8	8.1	10.5	15.1	19.8	24.4	27.9	38.4	52.3	59.3
87.5°	0.0	0.0	0.0	0.0	1.2	2.3	4.7	4.7	5.8	10.5	15.1
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°	4412.1	4412.1	4412.1	4412.1	4412.1	4412.1	4412.1	4412.1	4412.1	4412.1	4412.1
2.5°	4435.4	4404.0	4447.0	4466.8	4473.8	4478.4	4448.2	4427.3	4420.3	4398.2	4385.4
5°	4451.7	4430.7	4471.5	4471.5	4442.4	4412.1	4350.5	4307.5	4277.2	4241.2	4235.4
7.5°	4479.6	4464.5	4486.6	4441.2	4368.0	4286.5	4179.6	4095.8	4028.4	3984.2	3985.3
10°	4516.8	4498.2	4480.8	4379.6	4245.8	4095.8	3931.9	3809.7	3698.1	3646.9	3619.0
12.5°	4541.2	4514.5	4441.2	4273.8	4077.2	3876.0	3644.6	3463.2	3301.5	3228.3	3222.5
15°	4571.5	4522.6	4376.1	4136.5	3863.2	3588.8	3291.1	3038.7	2820.1	2706.1	2700.3
17.5°	4611.0	4530.8	4298.2	3979.5	3637.6	3232.9	2858.5	2541.0	2308.4	2220.0	2235.1
20°	4666.8	4540.1	4209.8	3805.1	3357.4	2828.2	2361.9	2070.0	1980.5	1974.6	1963.0
22.5°	4729.6	4545.9	4112.1	3609.7	3017.8	2396.8	1951.4	1827.0	1825.8	1854.9	1861.8
25°	4800.6	4550.5	4001.6	3381.8	2650.3	1966.5	1725.8	1688.6	1717.6	1772.3	1779.3
27.5°	4891.3	4559.8	3867.9	3131.8	2259.6	1699.0	1601.3	1592.0	1626.9	1678.1	1675.8
30°	5025.0	4593.6	3726.0	2844.5	1858.4	1572.3	1525.8	1526.9	1540.9	1565.3	1568.8
32.5°	5161.1	4645.9	3587.6	2521.2	1628.1	1500.2	1479.2	1476.9	1476.9	1487.4	1489.7
35°	5290.2	4705.2	3437.6	2184.0	1516.5	1458.3	1444.4	1437.4	1433.9	1431.6	1428.1
37.5°	5362.3	4734.3	3291.1	1851.4	1457.1	1430.4	1416.4	1407.1	1394.3	1385.0	1382.7
40°	5330.9	4700.5	3121.3	1602.5	1421.1	1403.7	1387.4	1374.6	1357.1	1349.0	1344.3
42.5°	5226.2	4595.9	2936.4	1485.1	1392.0	1374.6	1354.8	1333.9	1322.2	1315.3	1314.1
45°	5115.7	4469.1	2713.1	1416.4	1364.1	1343.2	1319.9	1296.7	1283.9	1280.4	1279.2
47.5°	5112.2	4406.3	2475.9	1361.8	1330.4	1309.5	1280.4	1257.1	1243.2	1238.5	1233.9
50°	5265.7	4470.3	2208.4	1314.1	1295.5	1273.4	1240.8	1215.3	1197.8	1192.0	1190.8
52.5°	5584.4	4711.0	1968.8	1266.4	1249.0	1223.4	1196.7	1171.1	1150.1	1139.7	1138.5
55°	5928.6	5016.9	1820.0	1217.6	1194.3	1172.2	1147.8	1119.9	1096.6	1080.4	1078.0
57.5°	6284.5	5350.6	1774.6	1155.9	1138.5	1123.4	1094.3	1064.1	1037.3	1022.2	1018.7
60°	6577.5	5637.9	1859.5	1090.8	1081.5	1061.8	1035.0	1005.9	987.3	975.7	973.4
62.5°	5506.5	4590.1	1501.3	1019.9	1019.9	999.0	968.7	947.8	935.0	926.9	924.5
65°	3494.6	2842.2	1024.5	948.9	947.8	919.9	894.3	880.3	874.5	861.7	859.4
67.5°	1522.3	1299.0	875.7	876.8	872.2	842.0	816.4	805.9	794.3	780.3	779.2
70°	789.6	804.7	783.8	796.6	788.5	752.4	728.0	711.7	687.3	673.3	674.5
72.5°	637.3	653.6	676.8	696.6	679.1	650.1	611.7	591.9	560.5	545.4	546.6
75°	486.1	503.5	525.6	546.6	532.6	496.6	472.1	452.4	416.3	398.9	402.4
77.5°	334.9	344.2	371.0	369.8	365.2	354.7	318.6	295.4	258.2	237.2	239.6
80°	208.2	214.0	226.8	232.6	230.3	216.3	187.2	169.8	147.7	134.9	136.1
82.5°	125.6	129.1	140.7	141.9	140.7	130.2	108.2	95.4	81.4	74.4	74.4
85°	64.0	66.3	73.3	73.3	66.3	55.8	50.0	44.2	36.1	32.6	32.6
87.5°	17.4	17.4	22.1	18.6	15.1	14.0	7.0	5.8	2.3	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)