

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: P635745

Luminaire Tested: GWS-SA3E-735-U-T2R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635745  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3E-735-U-T2R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

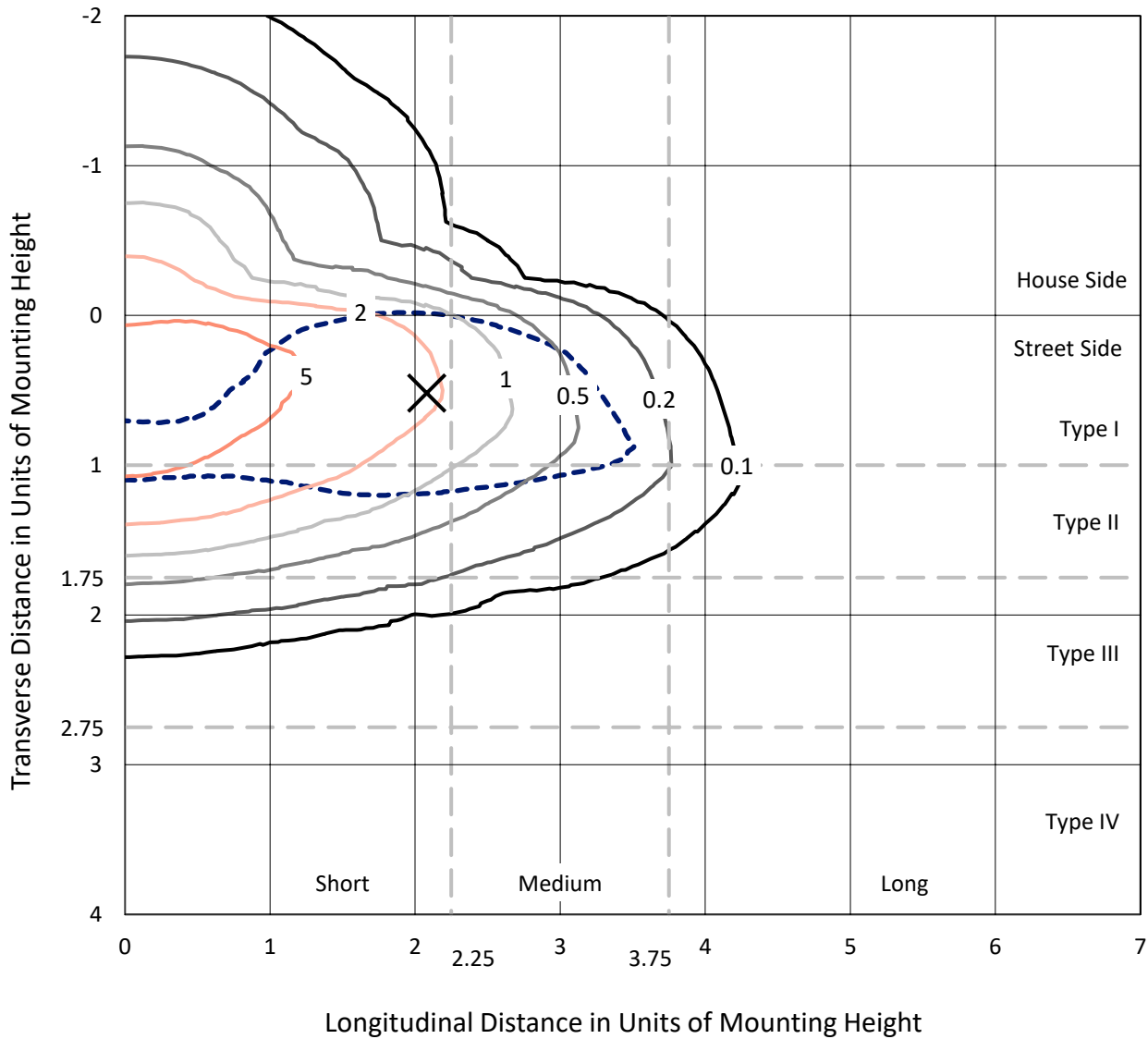
Lumens per Lamp: N/A  
Luminaire Lumens: 22116.9 lumens  
Efficiency: N/A  
Efficacy: 138.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 159.2  
Input Voltage (V): 120  
Input Current (Ain): 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

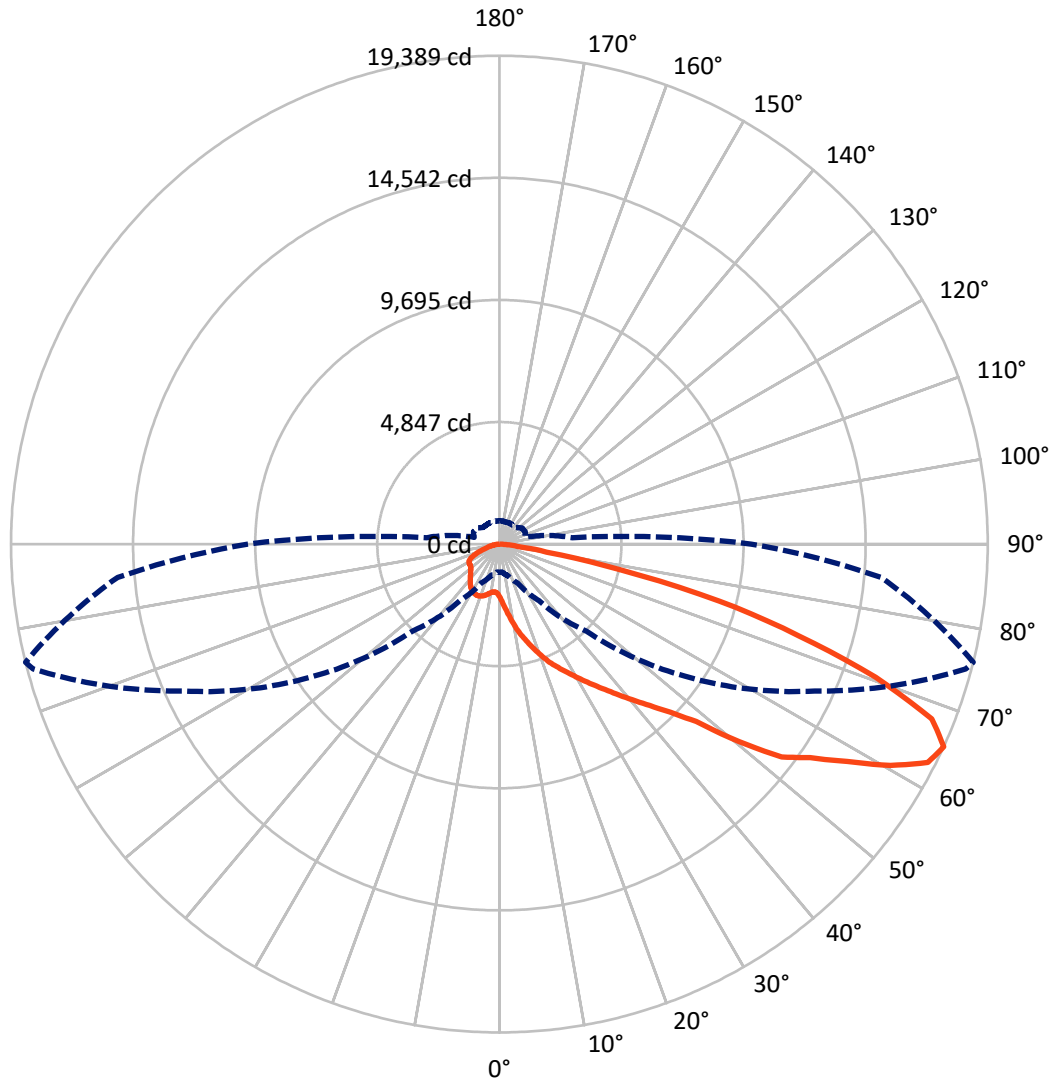
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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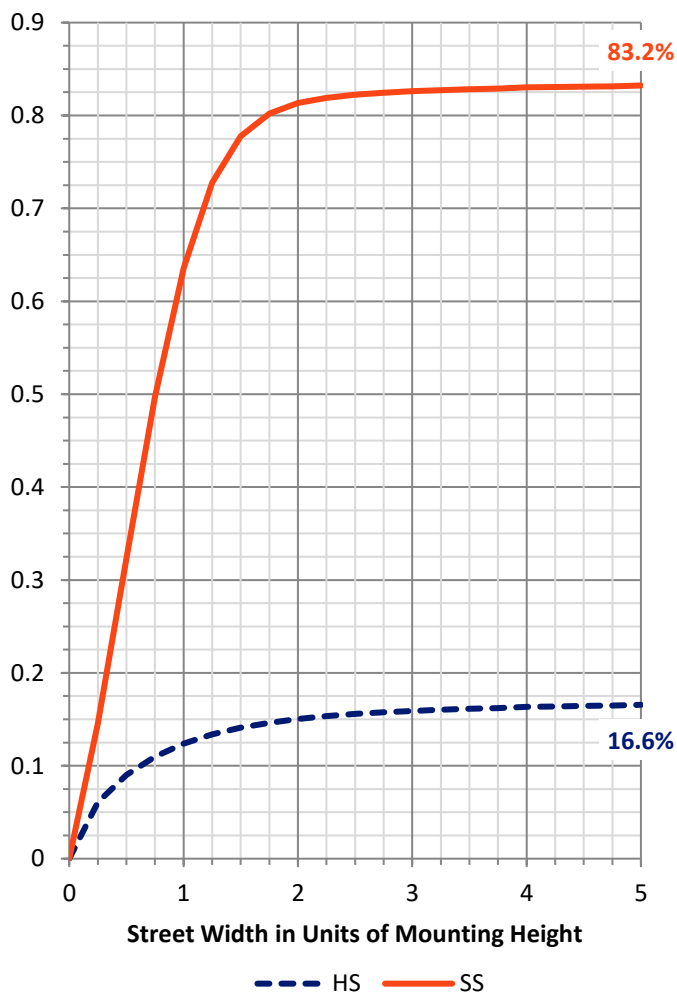
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3696.9	0.0	3696.9
	% Fixture	16.7	0.0	16.7
<b>Street Side</b>	Lumens	18420.0	0.0	18420.0
	% Fixture	83.3	0.0	83.3
<b>Total</b>	Lumens	22116.9	0.0	22116.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	248.8	1.1
10°-20°	947.7	4.3
20°-30°	1847.0	8.4
30°-40°	3089.0	14.0
40°-50°	4422.9	20.0
50°-60°	5236.1	23.7
60°-70°	4353.9	19.7
70°-80°	1781.7	8.1
80°-90°	189.7	0.9
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°	22116.9	100.0
0°-180°	22116.9	100.0

**Coefficient of Utilization**



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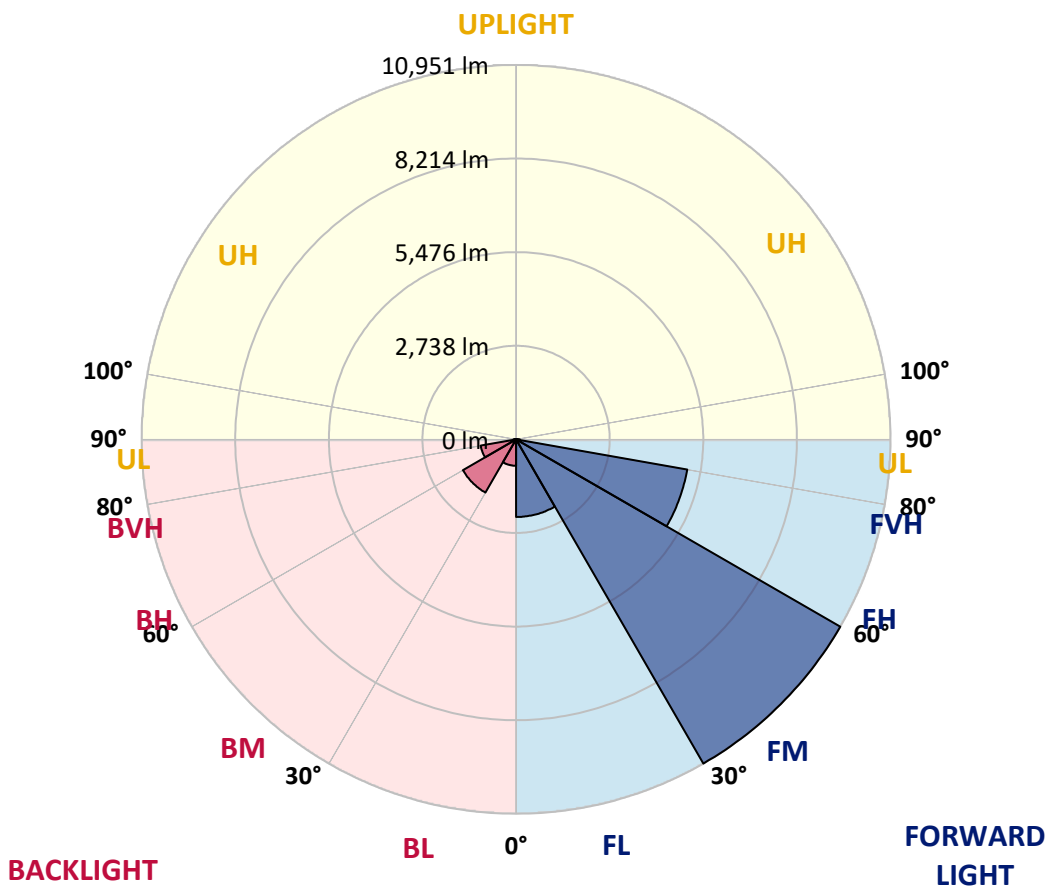
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2270.2	10.3			
FM (30°-60°)	10951.5	49.5			
FH (60°-80°)	5085.2	23.0			G3/7500
FVH (80°-90°)	113.1	0.5			G2/225
BL (0°-30°)	773.4	3.5	B2/1000		
BM (30°-60°)	1796.6	8.1	B2/2500		
BH (60°-80°)	1050.3	4.7	B3/2500		G3/2500
BVH (80°-90°)	76.6	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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2094.4	2094.4	2094.4	2094.4	2094.4	2094.4	2094.4	2094.4	2094.4	2094.4	2094.4
2.5°	2935.6	2946.4	2910.7	2898.2	2814.3	2700.8	2605.9	2462.9	2330.7	2310.5	2192.3
5°	3728.5	3681.9	3641.5	3615.0	3498.4	3369.4	3168.8	2899.8	2618.4	2584.2	2329.2
7.5°	4199.7	4191.9	4142.1	4126.6	4036.4	3907.3	3700.6	3366.3	2957.3	2901.4	2514.2
10°	4577.5	4572.8	4547.9	4561.9	4479.5	4353.6	4153.0	3807.8	3328.9	3273.0	2721.0
12.5°	4907.1	4914.9	4910.2	4961.5	4919.6	4821.6	4613.3	4233.9	3700.6	3639.9	2972.9
15°	5148.1	5154.3	5177.7	5289.6	5312.9	5292.7	5081.3	4652.1	4067.5	3980.4	3232.5
17.5°	5216.5	5229.0	5284.9	5465.3	5591.3	5675.2	5518.2	5078.2	4428.2	4333.4	3496.9
20°	5308.3	5322.3	5378.2	5566.4	5751.4	5942.7	5914.7	5510.4	4792.1	4714.3	3764.3
22.5°	5732.7	5721.9	5697.0	5787.2	5919.3	6157.2	6227.2	5925.5	5168.3	5093.7	4059.7
25°	6550.6	6530.4	6371.8	6289.4	6245.8	6390.5	6514.8	6303.4	5535.3	5423.3	4334.9
27.5°	7452.4	7441.5	7239.4	7043.5	6776.1	6713.9	6786.9	6633.0	5891.3	5777.8	4574.4
30°	8306.0	8273.4	8061.9	7816.3	7458.6	7191.2	7083.9	6956.4	6281.6	6163.4	4854.3
32.5°	9069.5	9027.5	8778.7	8506.6	8131.9	7816.3	7496.0	7300.0	6723.2	6586.4	5140.3
35°	9696.1	9654.1	9399.1	9109.9	8697.9	8464.6	8026.2	7673.2	7172.5	7034.2	5477.8
37.5°	10181.2	10142.3	9876.4	9591.9	9232.7	9047.7	8666.8	8093.0	7690.3	7545.7	5835.4
40°	10453.3	10425.3	10212.3	9986.8	9685.2	9525.0	9354.0	8623.2	8270.3	8125.7	6256.7
42.5°	10535.7	10517.0	10367.8	10251.2	10047.5	9926.2	10024.1	9246.7	8889.1	8763.2	6731.0
45°	10328.9	10328.9	10285.4	10344.4	10353.8	10352.2	10695.8	9951.1	9649.4	9511.0	7399.6
47.5°	9800.2	9834.5	9898.2	10189.0	10495.3	10751.8	11481.0	10890.2	10627.4	10513.9	8346.5
50°	8833.1	8926.4	9144.1	9711.6	10363.1	11016.1	12224.3	12278.7	12529.0	12328.4	9739.6
52.5°	7416.7	7402.7	7957.7	8766.3	9759.8	11027.0	12633.2	13503.9	14177.2	14038.8	10775.1
55°	5894.5	5871.1	6388.9	7503.7	8834.7	10610.3	12878.9	14065.2	15091.4	14967.0	11706.5
57.5°	4513.7	4484.2	4944.4	5950.4	7528.6	9725.6	12832.2	14733.8	16349.3	16285.5	12972.1
60°	3106.6	3070.8	3501.5	4381.6	5983.1	8372.9	12316.0	15077.4	17821.7	17843.5	14326.4
62.5°	1865.8	1845.6	2158.1	2840.7	4303.8	6696.8	11107.9	14869.1	18994.1	19092.1	15197.1
65°	1125.7	1111.7	1295.2	1694.8	2730.3	4886.9	9245.2	13804.0	19163.6	19389.0	15217.4
67.5°	819.4	821.0	873.8	1032.4	1592.2	3156.4	6937.8	11894.6	18280.4	18513.6	14258.0
70°	712.1	715.2	743.2	779.0	962.5	1806.7	4510.6	9389.8	15669.8	15850.2	11958.4
72.5°	632.8	632.8	651.5	670.1	752.5	1100.8	2416.2	6563.0	12367.3	12415.5	9127.0
75°	556.6	552.0	561.3	570.6	653.0	769.7	1175.5	4572.8	9134.8	9022.8	5899.1
77.5°	443.1	438.5	440.0	449.4	524.0	550.4	595.5	2856.3	5148.1	4858.9	2605.9
80°	315.6	312.5	329.6	353.0	387.2	337.4	373.2	1382.3	2041.5	1900.0	1010.7
82.5°	188.1	194.4	220.8	239.4	267.4	211.5	241.0	461.8	723.0	704.3	410.5
85°	26.4	28.0	79.3	91.7	115.1	82.4	127.5	208.4	289.2	309.4	144.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	10.9	37.3	82.4	84.0	35.8
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°	2094.4	2094.4	2094.4	2094.4	2094.4	2094.4	2094.4	2094.4	2094.4	2094.4	2094.4
2.5°	2131.7	2058.6	1954.5	1867.4	1794.3	1735.2	1685.5	1648.1	1637.3	1621.7	1621.7
5°	2209.4	2077.3	1890.7	1758.5	1682.4	1637.3	1606.2	1590.6	1582.8	1573.5	1568.8
7.5°	2316.7	2131.7	1879.8	1746.1	1687.0	1659.0	1638.8	1629.5	1623.3	1613.9	1613.9
10°	2464.4	2212.6	1914.0	1789.6	1743.0	1715.0	1691.7	1676.1	1662.1	1648.1	1645.0
12.5°	2624.6	2318.3	1976.2	1848.7	1799.0	1764.8	1732.1	1708.8	1691.7	1674.6	1669.9
15°	2801.8	2427.1	2043.1	1906.3	1844.1	1797.4	1758.5	1722.8	1699.5	1674.6	1671.5
17.5°	2976.0	2537.5	2099.1	1945.1	1865.8	1808.3	1752.3	1705.7	1676.1	1648.1	1640.4
20°	3184.3	2647.9	2137.9	1956.0	1861.2	1785.0	1718.1	1659.0	1626.4	1593.7	1589.1
22.5°	3375.6	2750.5	2156.6	1940.5	1825.4	1735.2	1657.5	1593.7	1558.0	1525.3	1519.1
25°	3560.6	2840.7	2148.8	1903.1	1771.0	1666.8	1586.0	1522.2	1488.0	1453.8	1444.5
27.5°	3739.4	2901.4	2117.7	1845.6	1702.6	1590.6	1512.9	1455.3	1425.8	1396.3	1383.8
30°	3915.1	2957.3	2069.5	1771.0	1615.5	1511.3	1447.6	1407.1	1377.6	1346.5	1337.2
32.5°	4092.4	2997.8	1996.4	1683.9	1526.9	1441.3	1402.5	1372.9	1341.8	1310.7	1301.4
35°	4271.2	3014.9	1907.8	1584.4	1452.2	1396.3	1382.3	1348.1	1306.1	1268.8	1256.3
37.5°	4484.2	3030.4	1797.4	1486.4	1386.9	1374.5	1371.4	1320.1	1270.3	1219.0	1205.0
40°	4740.8	3050.6	1683.9	1397.8	1334.1	1366.7	1354.3	1284.3	1184.8	1135.0	1119.5
42.5°	5054.8	3087.9	1565.7	1317.0	1295.2	1337.2	1323.2	1197.2	1130.4	1102.4	1094.6
45°	5516.6	3224.8	1447.6	1253.2	1265.7	1295.2	1273.4	1145.9	1119.5	1100.8	1091.5
47.5°	6339.1	3434.7	1344.9	1205.0	1242.3	1257.9	1173.9	1131.9	1111.7	1086.8	1076.0
50°	7194.3	3526.4	1262.5	1175.5	1215.9	1223.7	1119.5	1113.3	1099.3	1072.8	1062.0
52.5°	7772.7	3514.0	1212.8	1164.6	1194.1	1164.6	1094.6	1093.1	1083.7	1052.6	1040.2
55°	8425.8	3535.7	1191.0	1167.7	1184.8	1065.1	1063.5	1068.2	1063.5	1029.3	1023.1
57.5°	9307.4	3602.6	1180.1	1178.6	1178.6	1016.9	1034.0	1040.2	1030.9	1015.3	1010.7
60°	10154.8	3607.3	1159.9	1191.0	1173.9	987.3	999.8	1006.0	995.1	992.0	990.4
62.5°	10473.5	3383.4	1114.8	1181.7	1155.3	954.7	964.0	967.1	956.2	964.0	962.5
65°	9999.3	2907.6	1040.2	1136.6	1097.7	925.1	918.9	926.7	908.0	928.2	929.8
67.5°	8878.2	2310.5	926.7	1051.1	1016.9	892.5	880.0	880.0	849.0	880.0	878.5
70°	7158.5	1632.6	760.3	914.3	928.2	853.6	847.4	811.6	761.9	808.5	803.9
72.5°	5426.4	1172.4	598.6	723.0	799.2	799.2	800.7	740.1	682.6	704.3	685.7
75°	3437.8	825.6	478.9	553.5	626.6	701.2	737.0	625.1	573.7	564.4	555.1
77.5°	1548.6	542.6	373.2	424.5	444.7	553.5	673.3	538.0	468.0	447.8	441.6
80°	648.4	337.4	265.9	300.1	273.7	464.9	594.0	418.3	343.6	315.6	295.4
82.5°	284.5	200.6	169.5	161.7	171.0	345.2	443.1	278.3	214.6	290.8	293.9
85°	119.7	105.7	87.1	79.3	70.0	132.2	208.4	108.8	133.7	76.2	62.2
87.5°	28.0	31.1	23.3	15.5	9.3	1.6	0.0	0.0	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)