

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: P635028

Luminaire Tested: GWS-SA3C-830-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635028  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3C-830-U-T2R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

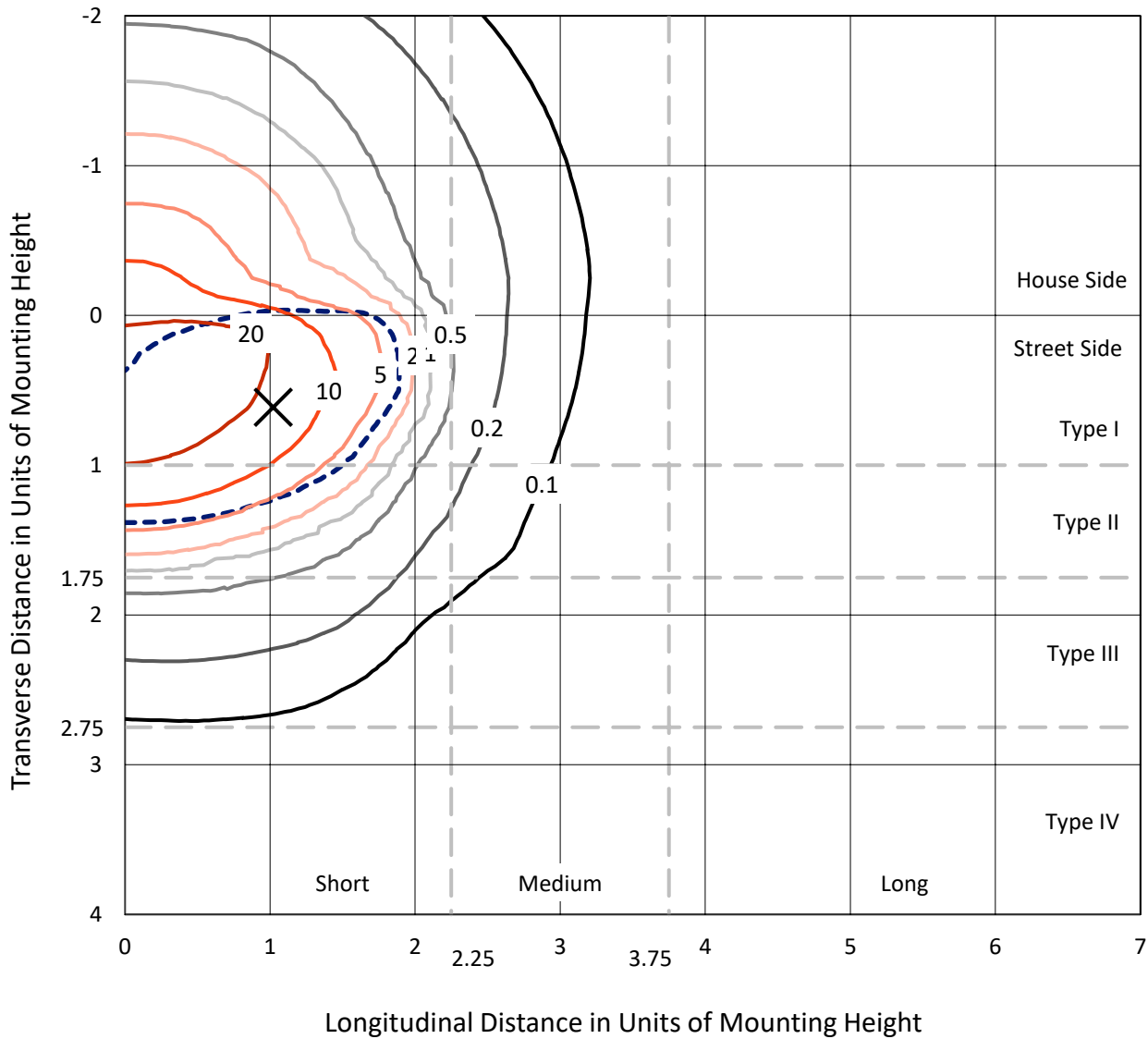
Lumens per Lamp: N/A  
Luminaire Lumens: 9752.7 lumens  
Efficiency: N/A  
Efficacy: 104.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 93  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

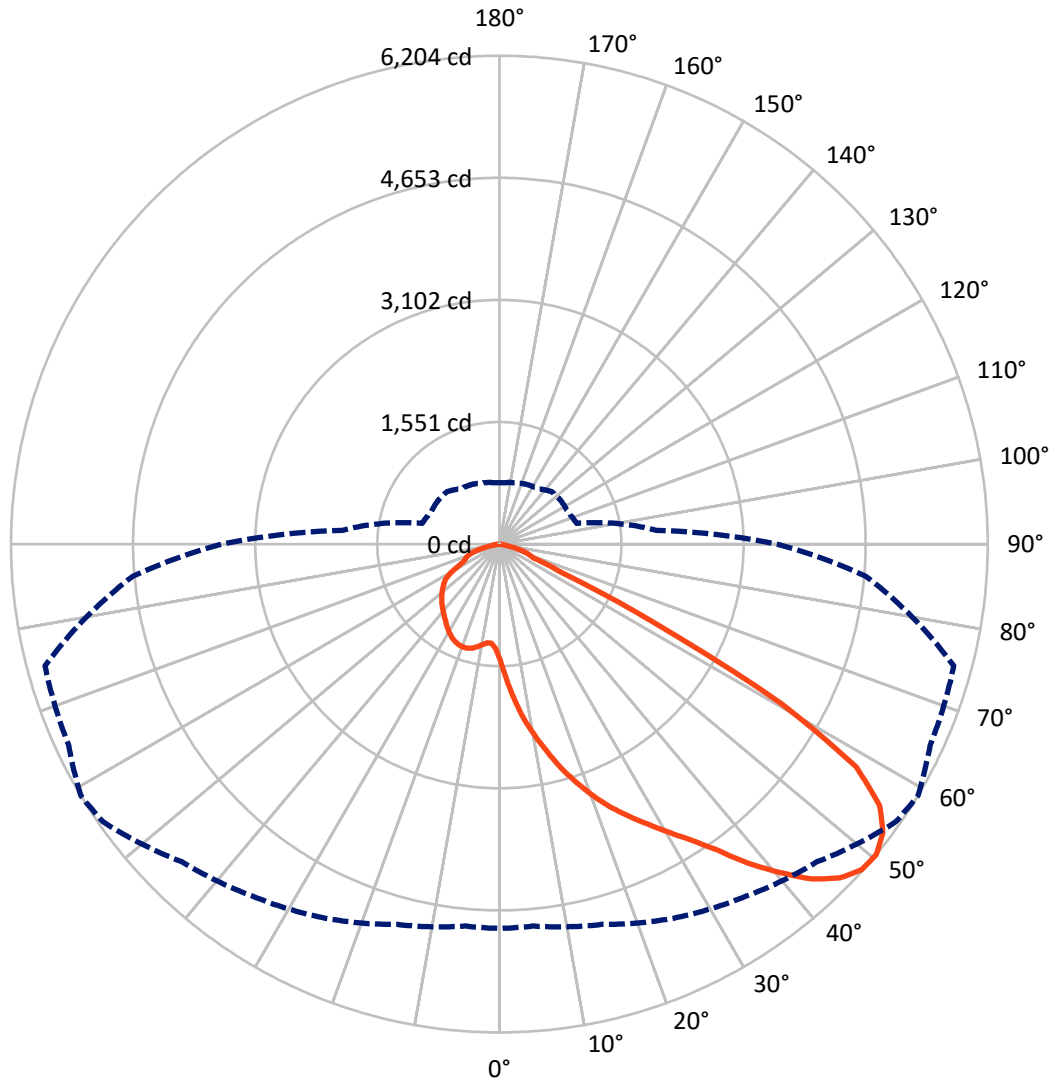
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 29.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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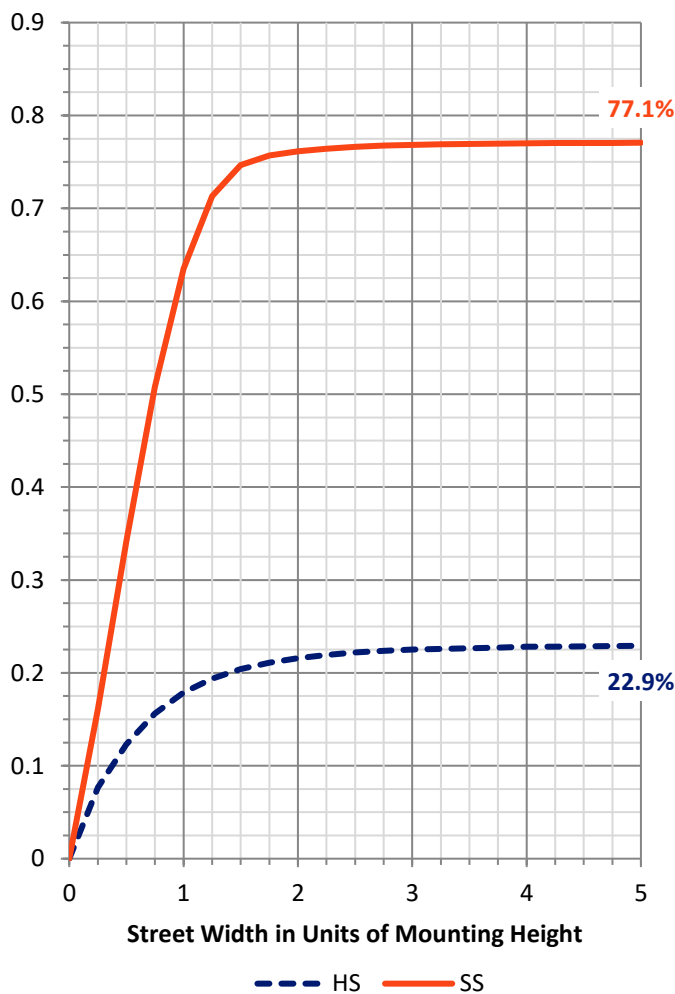
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2243.3	0.0	2243.3
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	7509.4	0.0	7509.4
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	9752.7	0.0	9752.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.8	1.7
10°-20°	601.7	6.2
20°-30°	1139.5	11.7
30°-40°	1889.6	19.4
40°-50°	2581.3	26.5
50°-60°	2343.1	24.0
60°-70°	780.3	8.0
70°-80°	227.6	2.3
80°-90°	23.9	0.2
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°	9752.7	100.0
0°-180°	9752.7	100.0

**Coefficient of Utilization**



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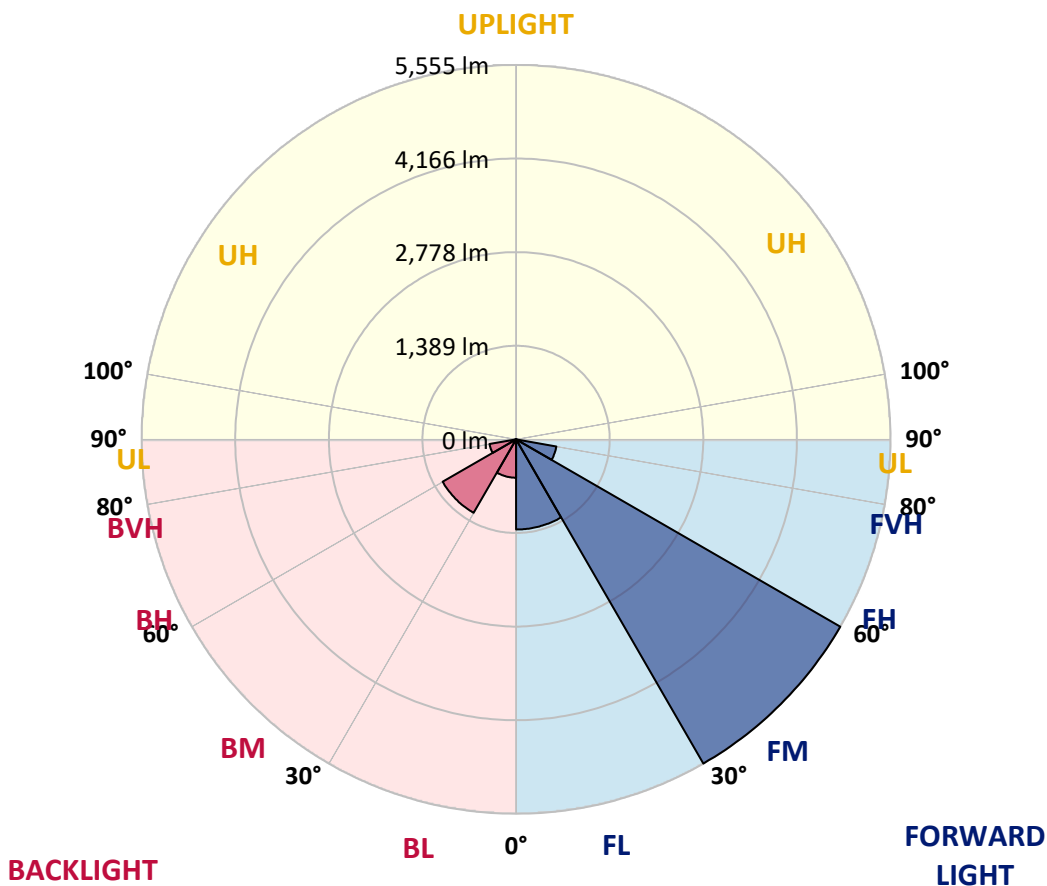
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1337.3	13.7			
FM (30°-60°)	5555.3	57.0			
FH (60°-80°)	607.5	6.2			G0/660
FVH (80°-90°)	9.3	0.1			G0/10
BL (0°-30°)	569.6	5.8	B2/1000		
BM (30°-60°)	1258.7	12.9	B2/2500		
BH (60°-80°)	400.4	4.1	B1/500		G1/500
BVH (80°-90°)	14.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6
2.5°	1914.5	1928.8	1906.6	1908.2	1852.6	1827.1	1755.6	1713.5	1685.7	1607.9	1537.2
5°	2300.6	2283.9	2266.5	2256.1	2207.7	2139.3	2050.4	1979.7	1914.5	1762.0	1615.0
7.5°	2537.3	2528.6	2516.7	2510.3	2462.7	2391.2	2302.2	2241.8	2147.3	1940.7	1709.6
10°	2738.3	2728.0	2720.9	2725.6	2686.7	2640.6	2543.7	2474.6	2368.1	2129.8	1824.0
12.5°	2894.0	2899.6	2902.0	2927.4	2910.7	2882.9	2782.8	2709.7	2591.4	2329.2	1958.2
15°	3017.2	3015.6	3043.4	3091.8	3118.9	3101.4	3021.1	2960.0	2815.4	2525.4	2102.8
17.5°	3045.8	3047.4	3091.1	3176.1	3264.2	3307.1	3261.8	3188.8	3045.8	2719.3	2252.9
20°	3068.8	3072.0	3117.3	3214.2	3342.9	3462.8	3470.0	3417.6	3294.4	2929.0	2405.5
22.5°	3214.2	3221.3	3233.2	3294.4	3410.4	3562.1	3645.5	3634.4	3531.2	3149.0	2569.9
25°	3596.3	3574.8	3516.9	3499.4	3543.9	3667.0	3809.2	3830.6	3779.8	3391.3	2747.1
27.5°	4068.2	4045.1	3959.3	3868.8	3772.7	3815.6	3967.3	4031.6	4032.4	3658.3	2925.0
30°	4496.4	4478.1	4408.2	4278.7	4112.7	4050.7	4162.7	4249.3	4300.9	3966.5	3127.6
32.5°	4862.6	4845.9	4751.4	4645.7	4483.7	4358.9	4399.4	4482.9	4603.6	4365.3	3379.4
35°	5170.8	5154.1	5063.6	4957.1	4807.0	4732.3	4718.0	4775.2	4931.7	4781.6	3668.6
37.5°	5421.1	5404.4	5309.8	5209.7	5095.3	5100.1	5121.6	5149.4	5239.1	5227.2	3977.6
40°	5583.1	5565.6	5498.1	5426.6	5354.3	5411.5	5518.0	5484.6	5532.3	5587.1	4262.0
42.5°	5655.4	5633.2	5594.2	5578.3	5556.1	5645.1	5850.0	5816.7	5759.5	5827.0	4473.3
45°	5583.1	5564.0	5563.3	5611.7	5663.4	5777.7	6079.6	6052.6	5908.0	5943.0	4599.6
47.5°	5361.5	5344.8	5390.1	5517.2	5644.3	5811.1	6182.1	6186.9	6013.7	5991.4	4681.5
50°	4882.4	4871.3	5002.4	5243.1	5462.4	5707.0	6149.5	6204.3	6039.1	5976.3	4671.1
52.5°	3908.5	3960.1	4245.3	4647.3	5073.1	5524.3	6028.8	6100.3	5916.8	5877.0	4615.5
55°	2675.6	2699.4	2984.6	3571.7	4246.9	5128.7	5751.5	5862.0	5772.2	5860.4	4673.5
57.5°	1385.5	1404.5	1629.3	2150.5	2880.5	4053.1	4981.7	5344.0	5480.6	5944.6	4853.8
60°	568.8	584.7	677.6	929.5	1453.0	2360.2	3585.2	4122.2	4443.1	5429.0	4310.5
62.5°	413.1	421.0	465.5	554.5	761.0	1156.7	2028.9	2226.7	2452.3	3402.5	2736.7
65°	348.0	356.7	392.4	446.5	555.3	709.4	866.7	871.5	960.4	1386.2	1014.5
67.5°	291.5	299.5	331.3	377.3	448.8	503.7	465.5	466.3	464.7	502.9	486.2
70°	227.2	233.6	265.3	314.6	351.9	323.3	363.8	402.8	386.1	401.2	424.2
72.5°	166.0	173.2	201.0	238.3	228.8	230.4	294.7	334.4	324.9	341.6	363.0
75°	120.0	124.7	139.0	119.2	125.5	151.7	207.3	228.8	238.3	252.6	271.7
77.5°	38.9	38.9	43.7	54.8	68.3	84.2	105.7	114.4	128.7	144.6	158.1
80°	19.9	20.7	24.6	30.2	38.1	48.5	62.0	65.9	73.1	81.8	87.4
82.5°	9.5	10.3	11.9	15.1	19.9	25.4	34.2	38.1	42.9	48.5	52.4
85°	2.4	2.4	3.2	4.8	6.4	9.5	12.7	15.1	19.1	23.0	25.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.8	2.4	3.2	4.0	4.8	6.4
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°	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6
2.5°	1505.4	1460.9	1403.7	1355.3	1310.8	1276.6	1247.2	1232.9	1219.4	1209.9	1213.1
5°	1546.7	1470.5	1364.0	1290.1	1244.8	1221.8	1205.9	1198.0	1196.4	1190.0	1187.6
7.5°	1607.1	1498.3	1356.1	1281.4	1251.2	1239.3	1230.5	1225.8	1228.2	1221.8	1219.4
10°	1681.8	1544.3	1375.9	1310.0	1283.8	1275.0	1265.5	1259.1	1256.0	1246.4	1244.8
12.5°	1774.7	1601.5	1411.7	1346.5	1320.3	1305.2	1292.5	1281.4	1274.2	1262.3	1259.1
15°	1874.8	1665.1	1453.8	1382.3	1351.3	1329.0	1308.4	1291.7	1279.0	1263.1	1260.7
17.5°	1983.6	1731.8	1488.7	1406.9	1367.2	1337.8	1307.6	1283.0	1265.5	1244.8	1242.5
20°	2097.2	1799.3	1514.9	1418.8	1368.0	1328.3	1287.7	1255.2	1232.9	1212.3	1210.7
22.5°	2214.8	1861.3	1530.8	1415.6	1355.3	1306.0	1257.6	1221.0	1194.8	1170.2	1168.6
25°	2333.2	1920.9	1534.8	1402.9	1329.8	1272.6	1224.2	1181.3	1151.9	1124.1	1120.9
27.5°	2453.1	1970.9	1525.3	1377.5	1295.7	1233.7	1185.3	1143.2	1113.0	1085.2	1080.4
30°	2581.0	2013.8	1504.6	1344.1	1256.0	1192.4	1144.7	1113.0	1084.4	1056.6	1051.8
32.5°	2717.7	2051.2	1475.2	1303.6	1209.9	1151.1	1116.1	1087.5	1058.9	1034.3	1029.6
35°	2880.5	2075.8	1431.5	1251.2	1167.0	1120.9	1097.1	1063.7	1028.8	1001.8	999.4
37.5°	3048.9	2094.9	1379.1	1201.1	1129.7	1103.4	1083.6	1038.3	994.6	962.0	958.1
40°	3211.8	2110.7	1314.0	1154.3	1095.5	1090.7	1063.7	1007.3	931.8	895.3	892.1
42.5°	3363.5	2115.5	1245.6	1104.2	1064.5	1062.1	1031.9	944.6	886.6	863.5	860.3
45°	3467.6	2111.5	1174.9	1057.4	1033.5	1020.8	989.0	899.3	863.5	842.9	838.9
47.5°	3544.7	2090.9	1095.5	1008.1	998.6	981.1	912.8	870.7	837.3	816.7	812.7
50°	3531.2	2005.1	1015.3	960.4	956.5	941.4	857.2	834.9	805.5	783.3	780.1
52.5°	3461.2	1842.2	933.4	908.0	916.0	886.6	817.4	792.0	766.6	741.2	735.6
55°	3478.7	1724.7	871.5	857.2	871.5	804.7	773.0	746.0	722.1	697.5	692.7
57.5°	3555.0	1608.7	805.5	802.4	817.4	742.0	715.8	681.6	647.4	627.6	627.6
60°	2985.4	1172.5	689.5	697.5	731.7	691.1	668.1	633.1	595.8	578.3	578.3
62.5°	1765.2	735.6	572.0	563.2	584.7	610.1	622.8	594.2	549.7	526.7	527.5
65°	777.7	535.4	504.5	497.3	490.9	508.4	543.4	545.8	498.9	471.9	472.7
67.5°	479.0	484.6	471.9	466.3	460.8	457.6	454.4	456.0	443.3	418.7	417.9
70°	432.2	447.3	438.5	433.7	426.6	421.0	402.0	371.0	349.5	343.2	350.3
72.5°	371.8	392.4	387.7	385.3	376.6	363.0	337.6	307.4	282.0	266.1	269.3
75°	280.4	297.1	299.5	300.3	290.8	278.0	251.8	226.4	204.2	187.5	191.5
77.5°	161.3	170.8	173.2	175.6	168.4	163.6	146.2	127.9	116.0	98.5	103.3
80°	89.8	93.7	93.7	94.5	90.6	85.0	73.1	62.8	57.2	49.3	50.0
82.5°	54.0	55.6	56.4	57.2	54.8	49.3	40.5	33.4	30.2	26.2	25.4
85°	26.2	27.8	27.8	28.6	24.6	21.4	16.7	12.7	11.1	7.9	8.7
87.5°	6.4	7.1	7.1	6.4	5.6	4.0	2.4	0.8	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)