

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: P632718

Luminaire Tested: GWS-SA2D-730-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632718  
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-SA2D-730-U-T2R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (32) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

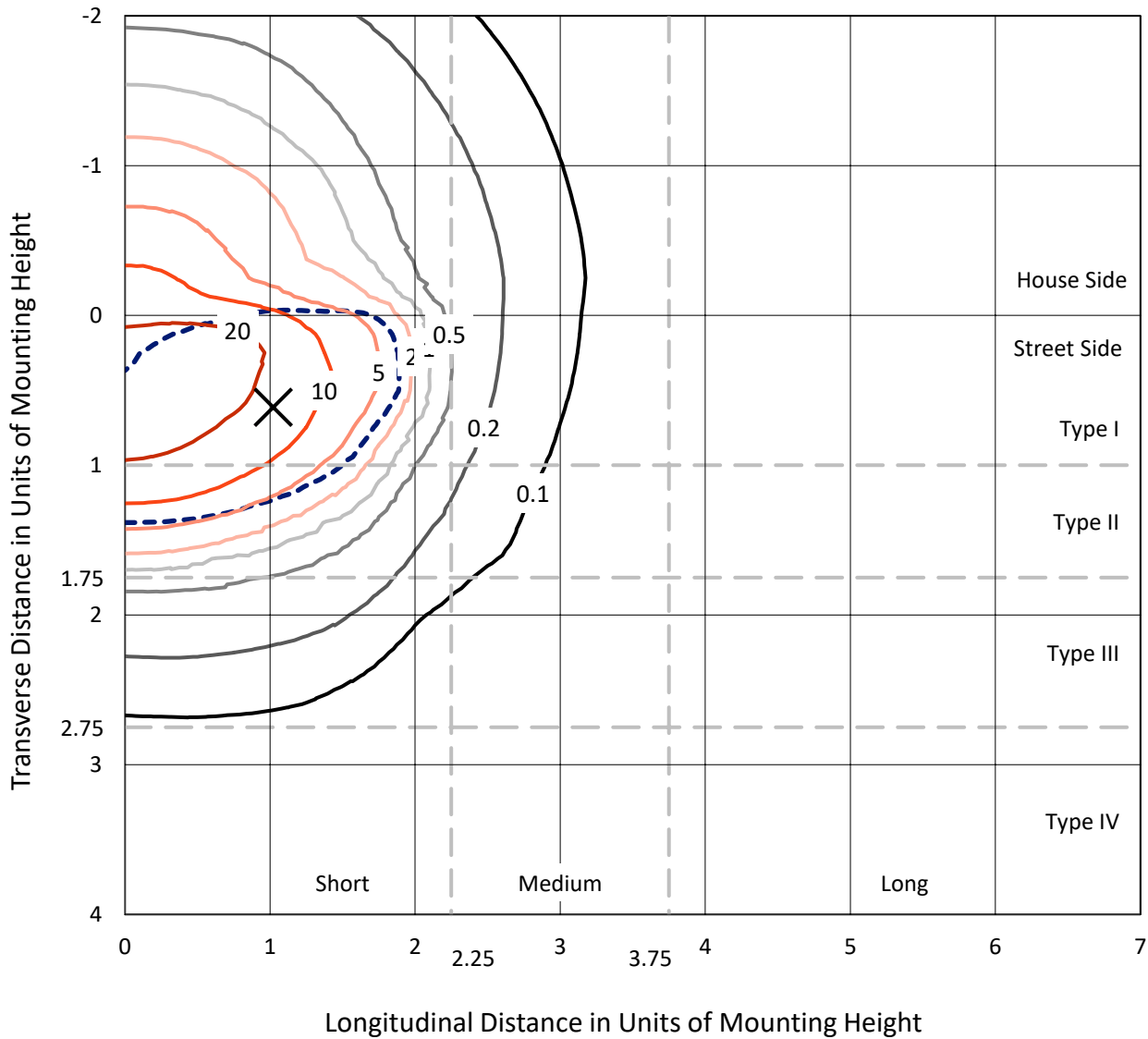
Lumens per Lamp: N/A  
Luminaire Lumens: 9357.6 lumens  
Efficiency: N/A  
Efficacy: 114.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

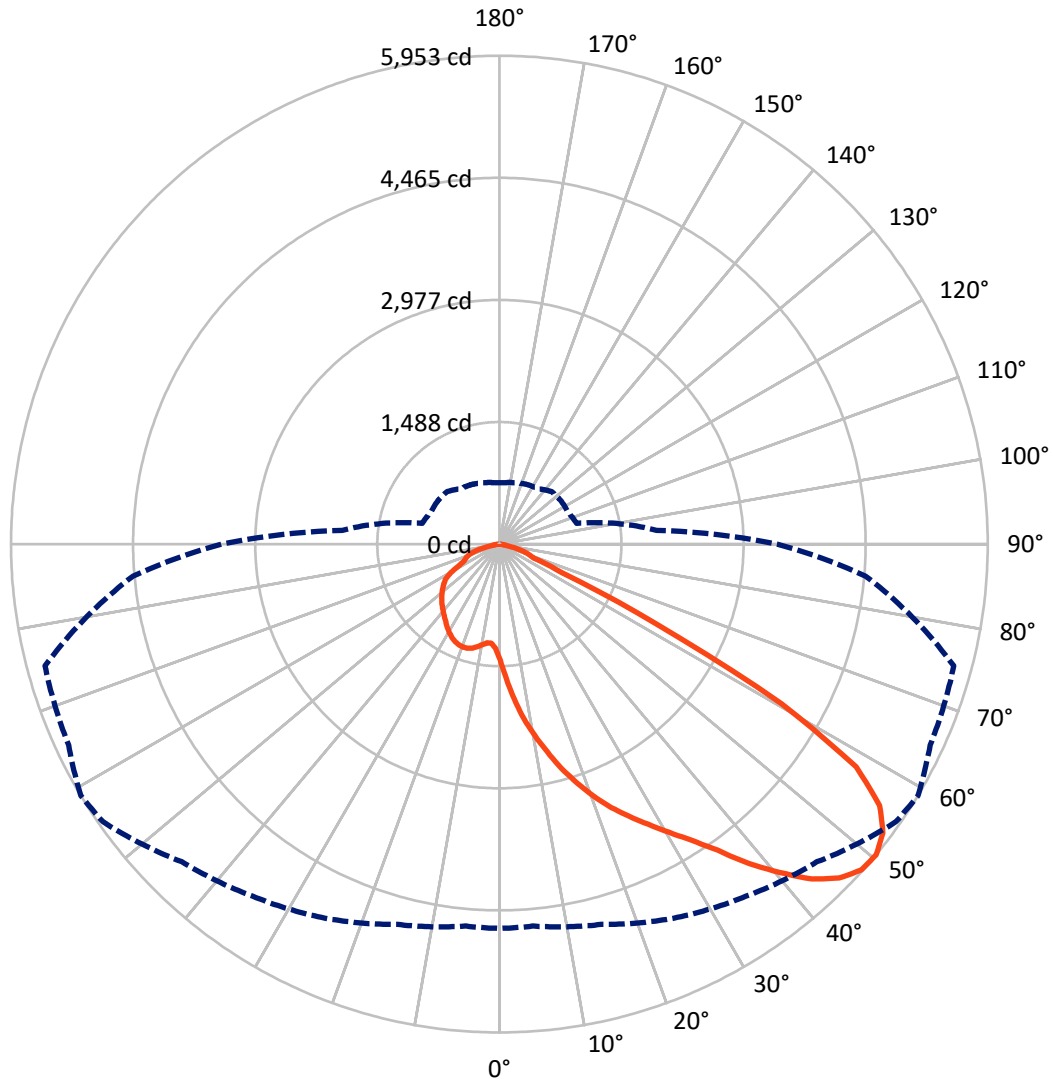
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 28 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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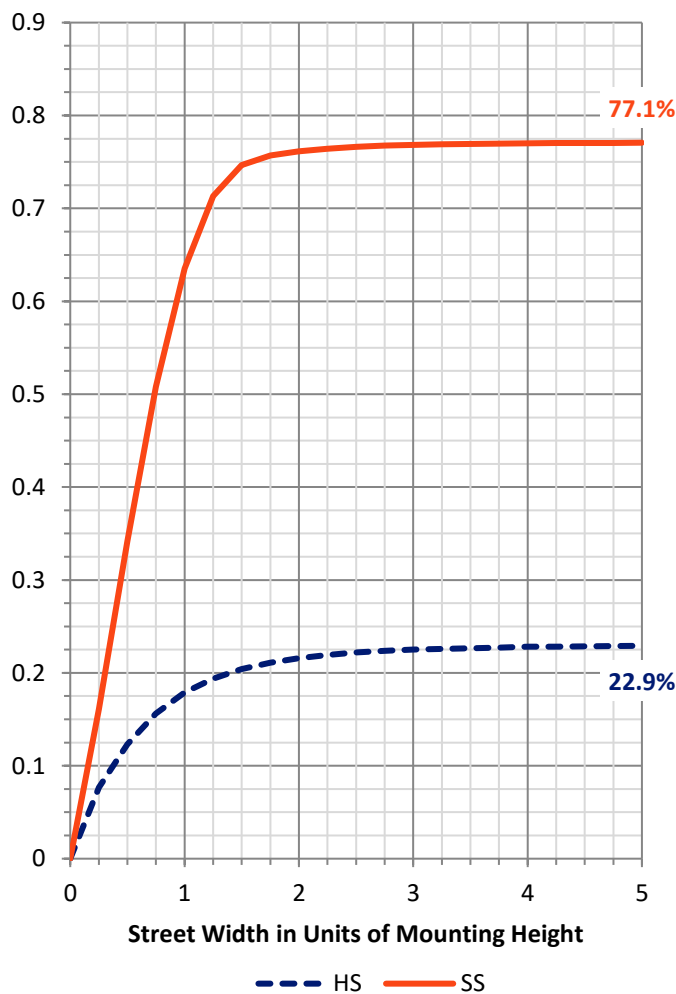
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2152.4	0.0	2152.4
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	7205.2	0.0	7205.2
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	9357.6	0.0	9357.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.0	1.7
10°-20°	577.4	6.2
20°-30°	1093.3	11.7
30°-40°	1813.0	19.4
40°-50°	2476.7	26.5
50°-60°	2248.2	24.0
60°-70°	748.7	8.0
70°-80°	218.4	2.3
80°-90°	22.9	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°	9357.6	100.0
0°-180°	9357.6	100.0

**Coefficient of Utilization**



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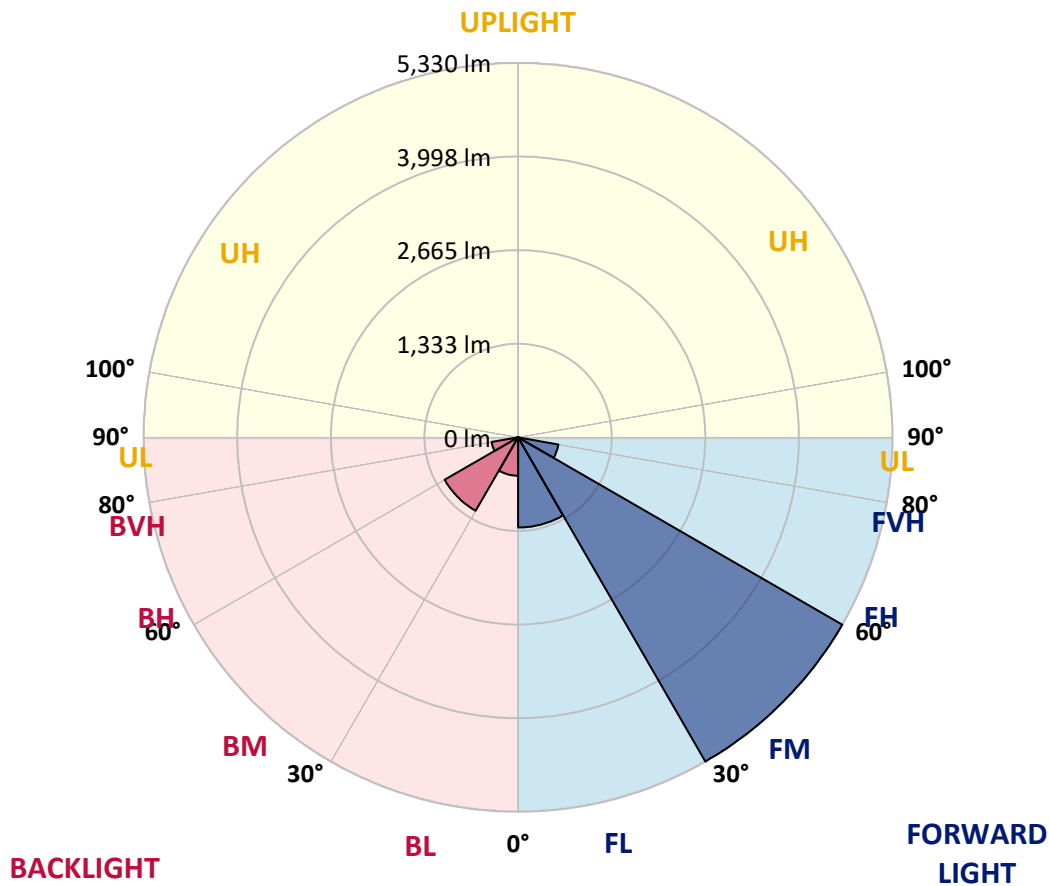
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1283.2	13.7			
FM (30°-60°)	5330.2	57.0			
FH (60°-80°)	582.8	6.2			G0/660
FVH (80°-90°)	9.0	0.1			G0/10
BL (0°-30°)	546.6	5.8	B2/1000		
BM (30°-60°)	1207.7	12.9	B2/2500		
BH (60°-80°)	384.2	4.1	B1/500		G1/500
BVH (80°-90°)	14.0	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°	1417.7	1417.7	1417.7	1417.7	1417.7	1417.7	1417.7	1417.7	1417.7	1417.7	1417.7
2.5°	1837.0	1850.7	1829.3	1830.9	1777.5	1753.1	1684.5	1644.1	1617.4	1542.7	1474.9
5°	2207.4	2191.4	2174.6	2164.7	2118.2	2052.7	1967.3	1899.5	1837.0	1690.6	1549.6
7.5°	2434.6	2426.2	2414.7	2408.6	2362.9	2294.3	2208.9	2151.0	2060.3	1862.1	1640.3
10°	2627.4	2617.5	2610.6	2615.2	2577.9	2533.6	2440.7	2374.3	2272.2	2043.5	1750.1
12.5°	2776.8	2782.1	2784.4	2808.8	2792.8	2766.1	2670.1	2600.0	2486.4	2234.9	1878.9
15°	2894.9	2893.4	2920.1	2966.6	2992.5	2975.7	2898.8	2840.1	2701.3	2423.1	2017.6
17.5°	2922.4	2923.9	2965.8	3047.4	3132.0	3173.2	3129.7	3059.6	2922.4	2609.1	2161.7
20°	2944.5	2947.5	2991.0	3084.0	3207.5	3322.5	3329.4	3279.1	3161.0	2810.3	2308.0
22.5°	3084.0	3090.8	3102.3	3161.0	3272.2	3417.8	3497.9	3487.2	3388.1	3021.5	2465.8
25°	3450.6	3430.0	3374.4	3357.6	3400.3	3518.4	3654.9	3675.5	3626.7	3253.9	2635.8
27.5°	3903.4	3881.3	3798.9	3712.0	3619.8	3661.0	3806.6	3868.3	3869.1	3510.1	2806.5
30°	4314.2	4296.7	4229.6	4105.4	3946.1	3886.6	3994.1	4077.2	4126.7	3805.8	3000.9
32.5°	4665.6	4649.6	4558.9	4457.5	4302.0	4182.3	4221.2	4301.2	4417.1	4188.4	3242.5
35°	4961.3	4945.3	4858.4	4756.3	4612.2	4540.6	4526.9	4581.7	4731.9	4587.8	3520.0
37.5°	5201.4	5185.4	5094.7	4998.7	4888.9	4893.5	4914.1	4940.8	5026.9	5015.5	3816.5
40°	5356.9	5340.2	5275.4	5206.8	5137.4	5192.3	5294.4	5262.4	5308.2	5360.7	4089.3
42.5°	5426.3	5405.0	5367.6	5352.4	5331.0	5416.4	5613.0	5581.0	5526.1	5590.9	4292.1
45°	5356.9	5338.6	5337.9	5384.4	5433.9	5543.7	5833.3	5807.4	5668.7	5702.2	4413.3
47.5°	5144.3	5128.3	5171.7	5293.7	5415.6	5575.7	5931.7	5936.2	5770.1	5748.7	4491.8
50°	4684.6	4674.0	4799.7	5030.7	5241.1	5475.8	5900.4	5953.0	5794.5	5734.2	4481.9
52.5°	3750.2	3799.7	4073.3	4459.0	4867.6	5300.5	5784.5	5853.1	5677.1	5639.0	4428.5
55°	2567.2	2590.0	2863.7	3427.0	4074.9	4920.9	5518.5	5624.5	5538.3	5622.9	4484.2
57.5°	1329.3	1347.6	1563.3	2063.3	2763.8	3888.9	4779.9	5127.5	5258.6	5703.7	4657.2
60°	545.8	561.0	650.2	891.8	1394.1	2264.6	3439.9	3955.2	4263.1	5209.1	4135.8
62.5°	396.4	404.0	446.7	532.0	730.2	1109.8	1946.7	2136.5	2353.0	3264.6	2625.9
65°	333.9	342.2	376.5	428.4	532.8	680.7	831.6	836.2	921.5	1330.1	973.4
67.5°	279.7	287.4	317.8	362.1	430.7	483.3	446.7	447.4	445.9	482.5	466.5
70°	218.0	224.1	254.6	301.8	337.7	310.2	349.1	386.4	370.4	384.9	407.0
72.5°	159.3	166.2	192.8	228.7	219.5	221.0	282.8	320.9	311.8	327.8	348.3
75°	115.1	119.7	133.4	114.3	120.4	145.6	198.9	219.5	228.7	242.4	260.7
77.5°	37.3	37.3	41.9	52.6	65.6	80.8	101.4	109.8	123.5	138.7	151.7
80°	19.1	19.8	23.6	29.0	36.6	46.5	59.5	63.3	70.1	78.5	83.8
82.5°	9.1	9.9	11.4	14.5	19.1	24.4	32.8	36.6	41.2	46.5	50.3
85°	2.3	2.3	3.0	4.6	6.1	9.1	12.2	14.5	18.3	22.1	24.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.8	2.3	3.0	3.8	4.6	6.1
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°	1417.7	1417.7	1417.7	1417.7	1417.7	1417.7	1417.7	1417.7	1417.7	1417.7	1417.7
2.5°	1444.4	1401.7	1346.9	1300.4	1257.7	1224.9	1196.7	1183.0	1170.0	1160.9	1163.9
5°	1484.1	1410.9	1308.7	1237.9	1194.4	1172.3	1157.1	1149.4	1147.9	1141.8	1139.5
7.5°	1542.0	1437.6	1301.1	1229.5	1200.5	1189.1	1180.7	1176.1	1178.4	1172.3	1170.0
10°	1613.6	1481.8	1320.2	1256.9	1231.8	1223.4	1214.2	1208.1	1205.1	1195.9	1194.4
12.5°	1702.8	1536.7	1354.5	1292.0	1266.8	1252.3	1240.1	1229.5	1222.6	1211.2	1208.1
15°	1798.9	1597.6	1394.9	1326.3	1296.5	1275.2	1255.4	1239.4	1227.2	1211.9	1209.7
17.5°	1903.3	1661.7	1428.4	1349.9	1311.8	1283.6	1254.6	1231.0	1214.2	1194.4	1192.1
20°	2012.3	1726.4	1453.6	1361.3	1312.6	1274.4	1235.6	1204.3	1183.0	1163.2	1161.6
22.5°	2125.1	1785.9	1468.8	1358.3	1300.4	1253.1	1206.6	1171.5	1146.4	1122.8	1121.2
25°	2238.7	1843.1	1472.6	1346.1	1276.0	1221.1	1174.6	1133.4	1105.2	1078.6	1075.5
27.5°	2353.8	1891.1	1463.5	1321.7	1243.2	1183.7	1137.2	1096.8	1067.9	1041.2	1036.6
30°	2476.5	1932.2	1443.7	1289.7	1205.1	1144.1	1098.4	1067.9	1040.4	1013.8	1009.2
32.5°	2607.6	1968.1	1415.5	1250.8	1160.9	1104.5	1070.9	1043.5	1016.0	992.4	987.8
35°	2763.8	1991.7	1373.5	1200.5	1119.7	1075.5	1052.6	1020.6	987.1	961.2	958.9
37.5°	2925.4	2010.0	1323.2	1152.5	1083.9	1058.7	1039.7	996.2	954.3	923.1	919.2
40°	3081.7	2025.2	1260.7	1107.5	1051.1	1046.5	1020.6	966.5	894.1	859.0	856.0
42.5°	3227.3	2029.8	1195.2	1059.5	1021.4	1019.1	990.1	906.3	850.6	828.5	825.5
45°	3327.1	2026.0	1127.3	1014.5	991.7	979.5	949.0	862.8	828.5	808.7	804.9
47.5°	3401.1	2006.2	1051.1	967.3	958.1	941.4	875.8	835.4	803.4	783.6	779.8
50°	3388.1	1923.9	974.1	921.5	917.7	903.2	822.4	801.1	772.9	751.6	748.5
52.5°	3321.0	1767.6	895.6	871.2	878.8	850.6	784.3	759.9	735.5	711.2	705.8
55°	3337.8	1654.8	836.2	822.4	836.2	772.1	741.6	715.7	692.9	669.2	664.7
57.5°	3411.0	1543.5	772.9	769.8	784.3	711.9	686.8	654.0	621.2	602.2	602.2
60°	2864.4	1125.0	661.6	669.2	702.0	663.1	641.0	607.5	571.7	554.9	554.9
62.5°	1693.7	705.8	548.8	540.4	561.0	585.4	597.6	570.1	527.5	505.4	506.1
65°	746.2	513.7	484.0	477.2	471.1	487.8	521.4	523.7	478.7	452.8	453.5
67.5°	459.6	465.0	452.8	447.4	442.1	439.0	436.0	437.5	425.3	401.7	400.9
70°	414.7	429.1	420.7	416.2	409.3	404.0	385.7	356.0	335.4	329.3	336.1
72.5°	356.7	376.5	372.0	369.7	361.3	348.3	323.9	295.0	270.6	255.3	258.4
75°	269.1	285.1	287.4	288.1	279.0	266.8	241.6	217.2	195.9	179.9	183.7
77.5°	154.7	163.9	166.2	168.5	161.6	157.0	140.2	122.7	111.3	94.5	99.1
80°	86.1	89.9	89.9	90.7	86.9	81.6	70.1	60.2	54.9	47.3	48.0
82.5°	51.8	53.4	54.1	54.9	52.6	47.3	38.9	32.0	29.0	25.2	24.4
85°	25.2	26.7	26.7	27.4	23.6	20.6	16.0	12.2	10.7	7.6	8.4
87.5°	6.1	6.9	6.9	6.1	5.3	3.8	2.3	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)