

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: P640032

Luminaire Tested: GWS-SA5D-722-U-T2R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640032  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-722-U-T2R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

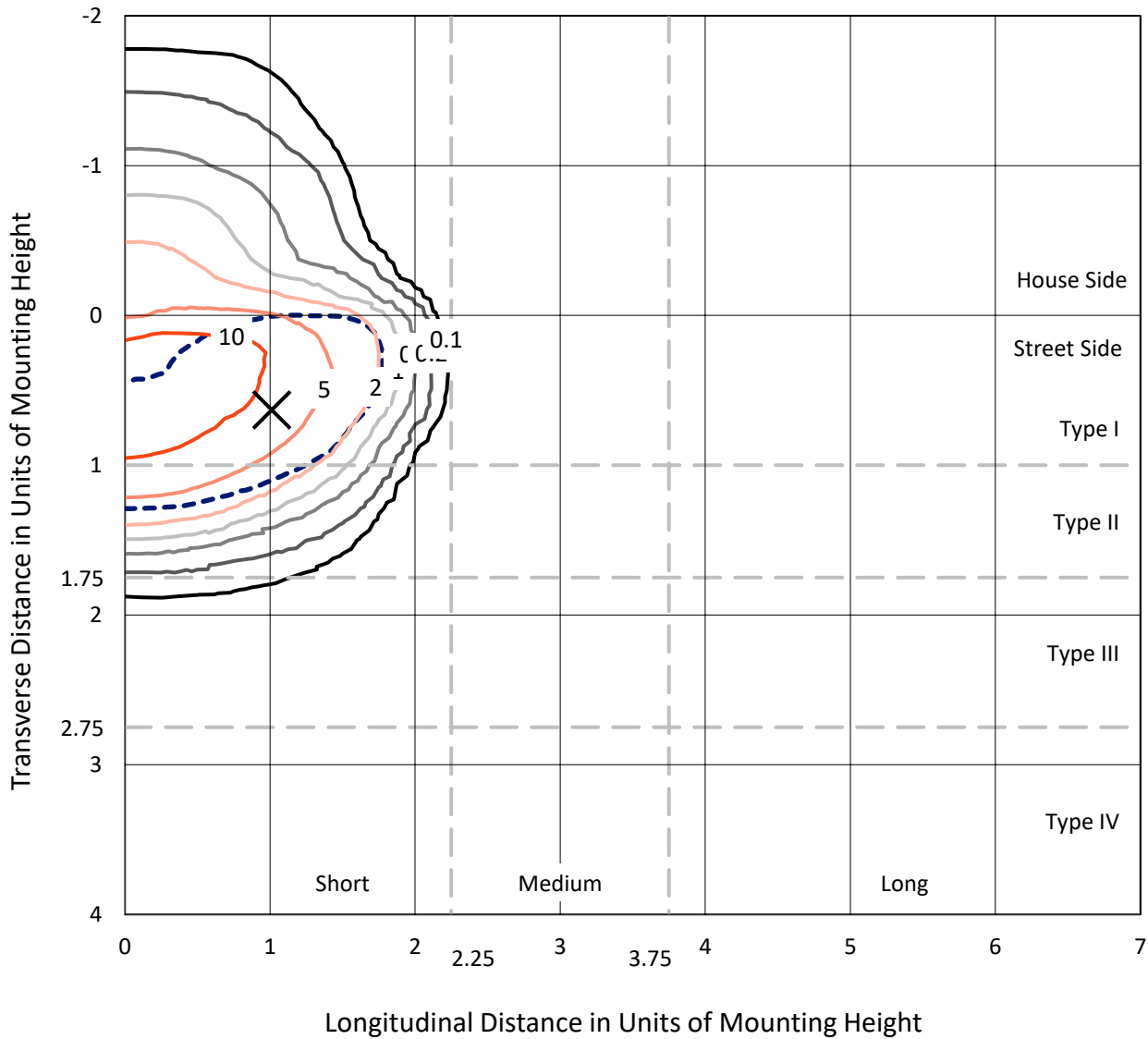
Lumens per Lamp: N/A  
Luminaire Lumens: 14833.4 lumens  
Efficiency: N/A  
Efficacy: 72.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

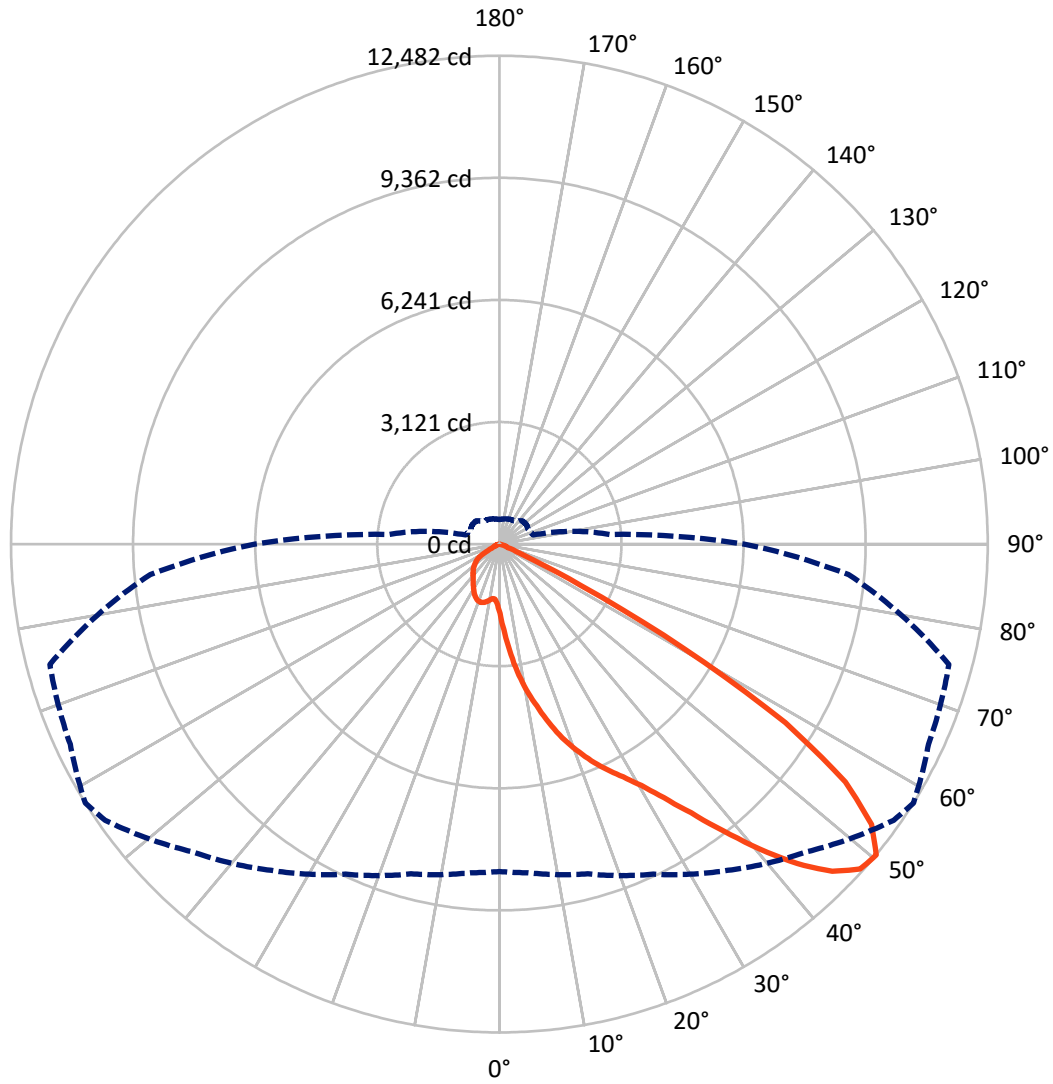
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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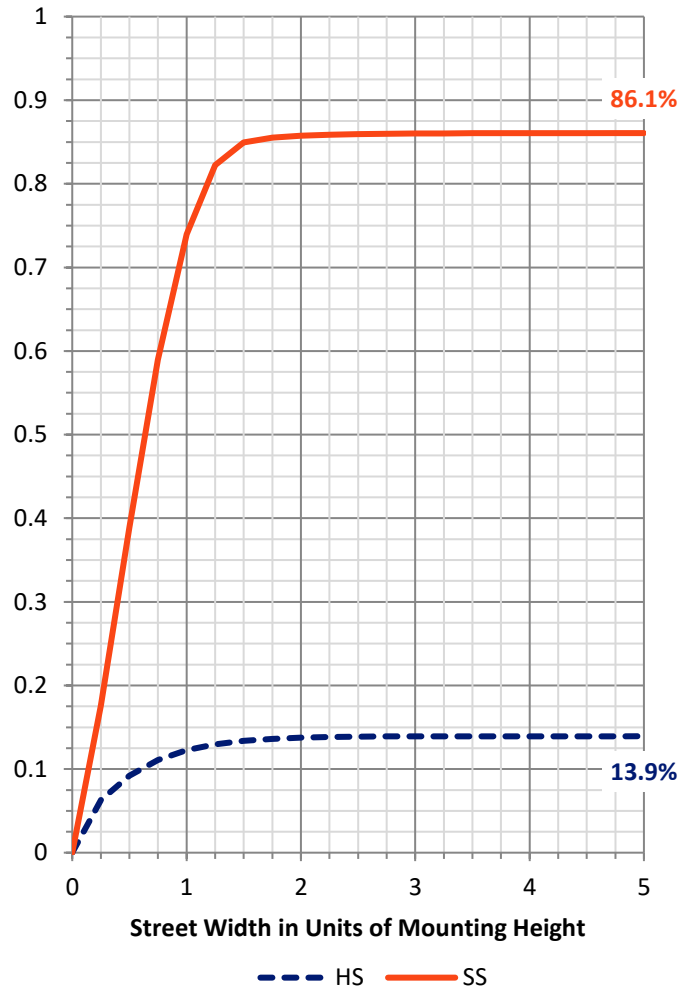
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2077.6	0.0	2077.6
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	12755.8	0.0	12755.8
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	14833.4	0.0	14833.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	219.5	1.5
10°-20°	868.9	5.9
20°-30°	1758.3	11.9
30°-40°	3110.7	21.0
40°-50°	4534.7	30.6
50°-60°	3634.7	24.5
60°-70°	654.8	4.4
70°-80°	51.6	0.3
80°-90°	0.0	0.0
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°	14833.4	100.0
0°-180°	14833.4	100.0

**Coefficient of Utilization**



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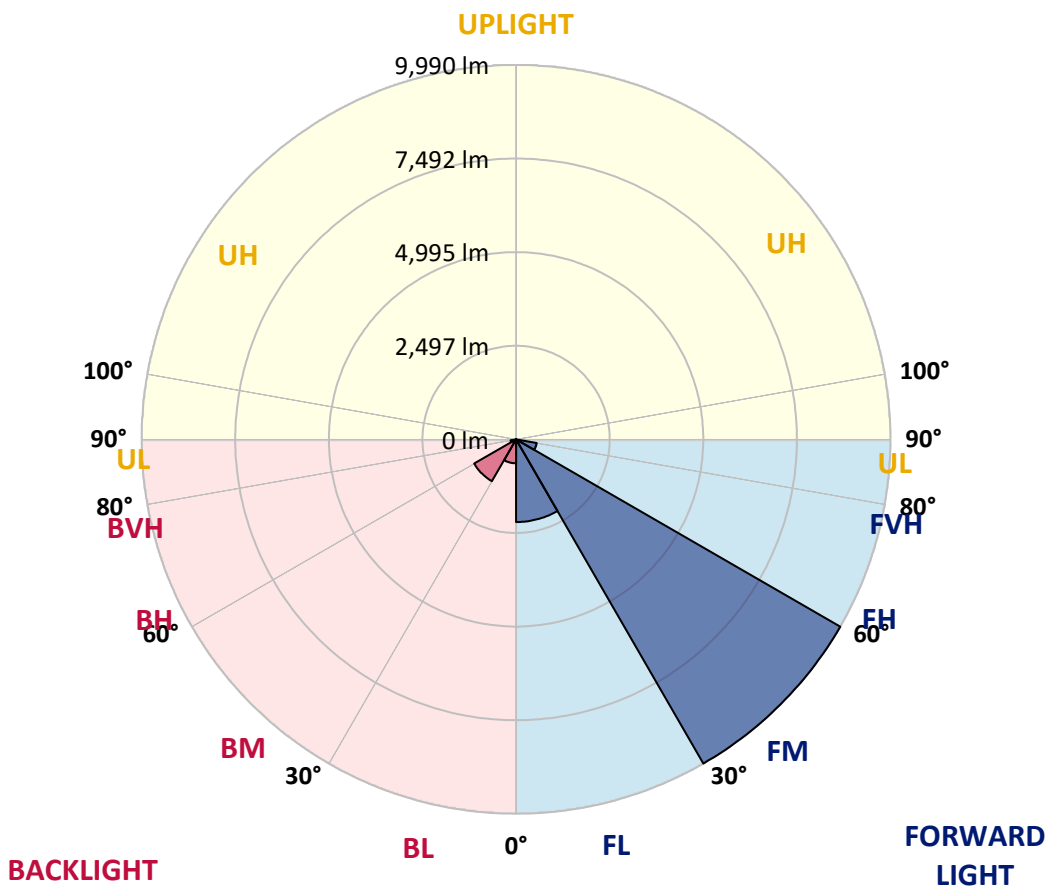
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2207.2	14.9			
FM (30°-60°)	9989.9	67.3			
FH (60°-80°)	558.8	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	639.6	4.3	B2/1000		
BM (30°-60°)	1290.3	8.7	B2/2500		
BH (60°-80°)	147.7	1.0	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
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°	58°	65°	75°	85°
0°	1771.8	1771.8	1771.8	1771.8	1771.8	1771.8	1771.8	1771.8	1771.8	1771.8	1771.8
2.5°	2622.0	2580.8	2557.0	2538.0	2453.9	2320.7	2233.4	2187.4	2111.3	1982.8	1871.8
5°	3421.5	3391.4	3335.9	3297.8	3189.9	3001.2	2806.0	2728.3	2555.4	2265.1	2005.0
7.5°	3951.3	3929.1	3908.5	3857.7	3756.2	3584.9	3369.2	3288.3	3021.8	2609.4	2182.7
10°	4359.0	4341.5	4317.7	4316.1	4236.8	4083.0	3872.0	3787.9	3499.2	2983.7	2392.0
12.5°	4717.5	4703.2	4698.4	4742.8	4692.1	4577.9	4349.5	4244.8	3938.6	3366.0	2623.6
15°	4963.3	4960.2	4980.8	5068.0	5096.6	5044.2	4852.3	4739.7	4387.5	3749.9	2879.0
17.5°	5076.0	5085.5	5125.1	5275.8	5402.7	5447.1	5299.6	5204.4	4833.3	4138.5	3151.8
20°	5267.9	5264.7	5288.5	5431.3	5586.7	5745.3	5700.9	5620.0	5283.7	4549.3	3454.8
22.5°	5808.8	5762.8	5712.0	5734.2	5789.8	5975.3	6057.8	6016.6	5748.5	4971.3	3767.3
25°	6640.0	6592.4	6429.0	6270.4	6165.7	6249.8	6362.4	6383.0	6210.1	5404.3	4094.1
27.5°	7521.9	7479.1	7295.1	7057.2	6757.4	6611.4	6695.5	6736.7	6663.8	5919.8	4441.5
30°	8348.4	8291.2	8089.8	7794.8	7447.4	7223.7	7128.5	7157.1	7199.9	6530.5	4849.1
32.5°	9065.3	9022.5	8781.4	8470.5	8135.8	7902.6	7680.5	7728.1	7832.8	7277.6	5371.0
35°	9672.9	9650.7	9395.3	9086.0	8732.2	8613.3	8422.9	8432.4	8537.1	8180.2	6007.1
37.5°	10201.1	10163.0	9931.4	9644.3	9363.5	9344.5	9292.2	9296.9	9350.9	9231.9	6738.3
40°	10534.2	10499.3	10334.3	10156.7	9956.8	9960.0	10231.2	10251.8	10190.0	10264.5	7510.8
42.5°	10659.5	10634.1	10545.3	10546.9	10526.3	10619.8	11129.0	11167.1	10945.0	11075.1	8170.7
45°	10442.2	10431.1	10437.4	10665.8	10913.3	11202.0	11863.4	11930.1	11616.0	11612.8	8686.2
47.5°	9741.1	9718.9	9904.4	10293.1	10865.7	11427.2	12307.6	12410.7	12085.5	11920.6	9009.8
50°	8367.4	8430.8	8724.3	9308.0	10178.9	11117.9	12302.8	12482.1	12103.0	11893.6	8955.9
52.5°	6061.0	6048.3	6690.7	7493.4	8553.0	10128.1	11649.3	11911.0	11679.4	11628.7	8835.3
55°	3297.8	3413.6	3846.6	4909.4	6232.3	8254.8	10156.7	10727.7	10995.8	11531.9	9052.6
57.5°	1211.9	1262.6	1533.9	2285.8	3299.4	5133.1	7758.3	8619.6	9447.6	11262.3	9016.2
60°	488.6	498.1	605.9	840.7	1386.4	2612.5	4654.0	5418.6	6199.0	8621.2	6919.2
62.5°	355.3	368.0	410.8	491.7	701.1	1142.1	2006.6	2333.4	2550.7	4270.1	3408.8
65°	287.1	296.6	331.5	368.0	463.2	613.9	647.2	623.4	620.2	1104.0	782.0
67.5°	237.9	247.5	272.8	298.2	333.1	306.1	222.1	233.2	190.3	188.8	153.9
70°	174.5	185.6	211.0	237.9	199.9	82.5	128.5	190.3	144.3	120.6	117.4
72.5°	131.7	139.6	163.4	155.5	58.7	31.7	85.7	138.0	111.0	88.8	87.2
75°	98.3	103.1	82.5	25.4	6.3	7.9	31.7	57.1	61.9	50.8	50.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.2	4.8	6.3	7.9	9.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1771.8	1771.8	1771.8	1771.8	1771.8	1771.8	1771.8	1771.8	1771.8	1771.8	1771.8
2.5°	1808.3	1741.7	1646.5	1567.2	1506.9	1448.2	1403.8	1359.4	1357.8	1335.6	1330.9
5°	1884.4	1763.9	1589.4	1464.1	1388.0	1342.0	1310.2	1294.4	1286.4	1278.5	1275.3
7.5°	1993.9	1821.0	1579.9	1446.6	1383.2	1353.1	1330.9	1321.3	1316.6	1310.2	1308.6
10°	2128.7	1903.5	1614.8	1480.0	1424.4	1395.9	1372.1	1357.8	1349.9	1338.8	1335.6
12.5°	2290.5	2005.0	1670.3	1535.5	1476.8	1438.7	1407.0	1386.4	1375.3	1361.0	1357.8
15°	2465.0	2114.5	1732.2	1586.2	1516.4	1467.3	1427.6	1395.9	1375.3	1357.8	1353.1
17.5°	2645.8	2225.5	1787.7	1621.1	1535.5	1476.8	1419.7	1376.9	1351.5	1329.3	1322.9
20°	2848.9	2339.7	1824.2	1627.5	1529.1	1451.4	1384.8	1330.9	1305.5	1275.3	1269.0
22.5°	3061.4	2446.0	1840.0	1613.2	1494.2	1403.8	1332.4	1276.9	1240.4	1208.7	1199.2
25°	3267.6	2541.1	1832.1	1573.5	1441.9	1337.2	1264.2	1207.1	1167.5	1135.7	1127.8
27.5°	3486.5	2620.5	1803.5	1514.9	1370.5	1264.2	1194.4	1145.3	1108.8	1073.9	1065.9
30°	3732.4	2693.4	1757.5	1443.5	1286.4	1189.7	1135.7	1102.4	1062.8	1026.3	1015.2
32.5°	4029.0	2758.5	1690.9	1357.8	1211.9	1124.6	1094.5	1069.1	1023.1	985.1	977.1
35°	4368.5	2812.4	1606.9	1269.0	1138.9	1083.4	1077.1	1043.7	983.5	939.1	929.5
37.5°	4761.9	2864.7	1506.9	1181.7	1085.0	1064.4	1065.9	1008.8	935.9	881.9	875.6
40°	5185.4	2917.1	1395.9	1105.6	1035.8	1053.3	1039.0	958.1	839.1	786.8	780.4
42.5°	5626.4	2974.2	1283.3	1034.2	994.6	1010.4	989.8	856.6	770.9	743.9	740.8
45°	6024.5	3042.4	1161.1	962.8	953.3	948.6	913.7	775.7	739.2	720.2	718.6
47.5°	6311.6	3031.3	1031.1	894.6	908.9	893.1	786.8	737.6	707.5	682.1	675.7
50°	6259.3	2837.8	896.2	818.5	851.8	837.5	707.5	693.2	666.2	639.3	629.7
52.5°	6126.0	2574.5	778.8	737.6	789.9	756.6	653.5	639.3	615.5	580.6	569.5
55°	6197.4	2327.0	686.8	672.6	726.5	626.6	593.3	571.0	545.7	507.6	502.8
57.5°	5967.4	1898.7	552.0	561.5	642.4	534.6	520.3	485.4	442.6	417.2	414.0
60°	4130.6	1019.9	345.8	356.9	464.8	448.9	466.4	434.6	382.3	358.5	353.7
62.5°	1897.1	409.2	188.8	180.8	244.3	304.6	399.7	396.6	331.5	293.5	290.3
65°	460.0	187.2	134.8	126.9	138.0	182.4	260.1	312.5	268.1	223.7	218.9
67.5°	149.1	152.3	123.7	115.8	122.1	136.4	155.5	172.9	171.3	157.0	153.9
70°	119.0	138.0	114.2	104.7	104.7	109.5	104.7	84.1	73.0	79.3	82.5
72.5°	88.8	104.7	90.4	80.9	77.7	76.1	65.0	47.6	33.3	30.1	28.6
75°	52.3	58.7	55.5	47.6	44.4	39.7	31.7	20.6	11.1	7.9	4.8
77.5°	9.5	11.1	12.7	9.5	7.9	6.3	4.8	1.6	0.0	0.0	0.0
80°	0.0	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)