

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: P632031

Luminaire Tested: GWS-SA2B-830-U-RW-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632031  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-50)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2B-830-U-RW-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

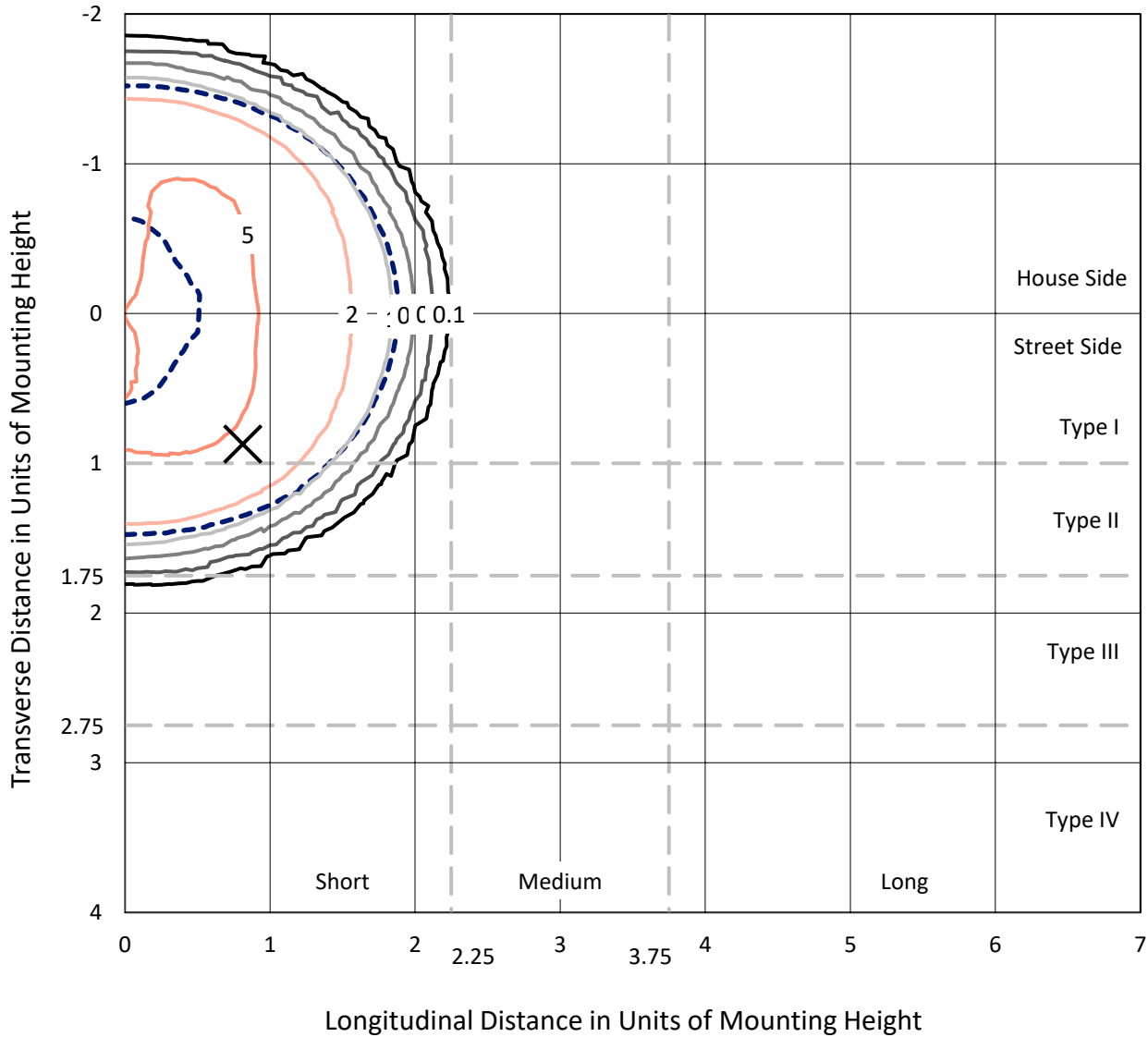
Lumens per Lamp: N/A  
Luminaire Lumens: 3553.2 lumens  
Efficiency: N/A  
Efficacy: 76.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G0  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

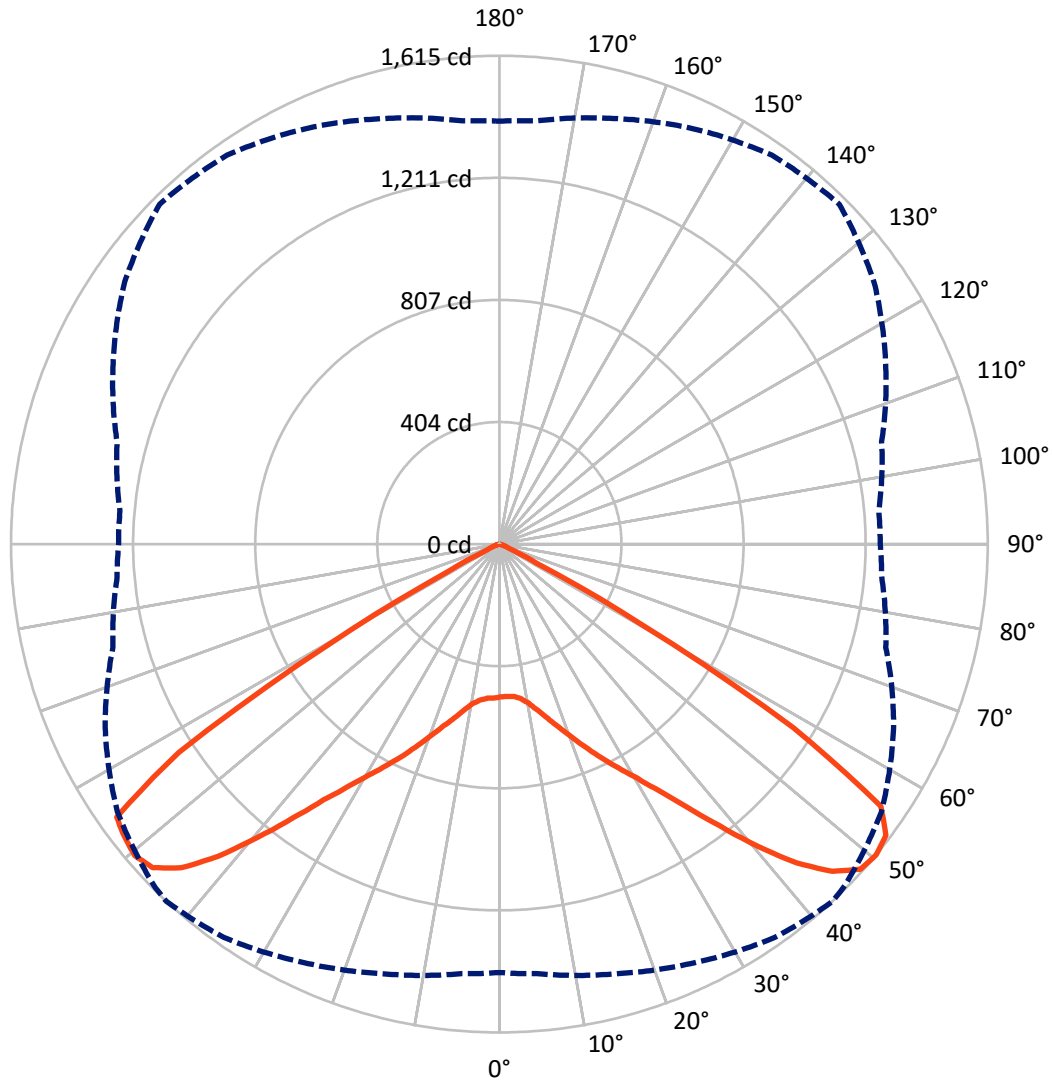
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.1 fc  
 Type V - Short - N/A

REPORT NUMBER: P632031  
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### Luminous Intensity Polar Plot



— Vertical Plane Through 43-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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 CATALOG NUMBER: GWS-SA2B-830-U-RW-W-GRSBK

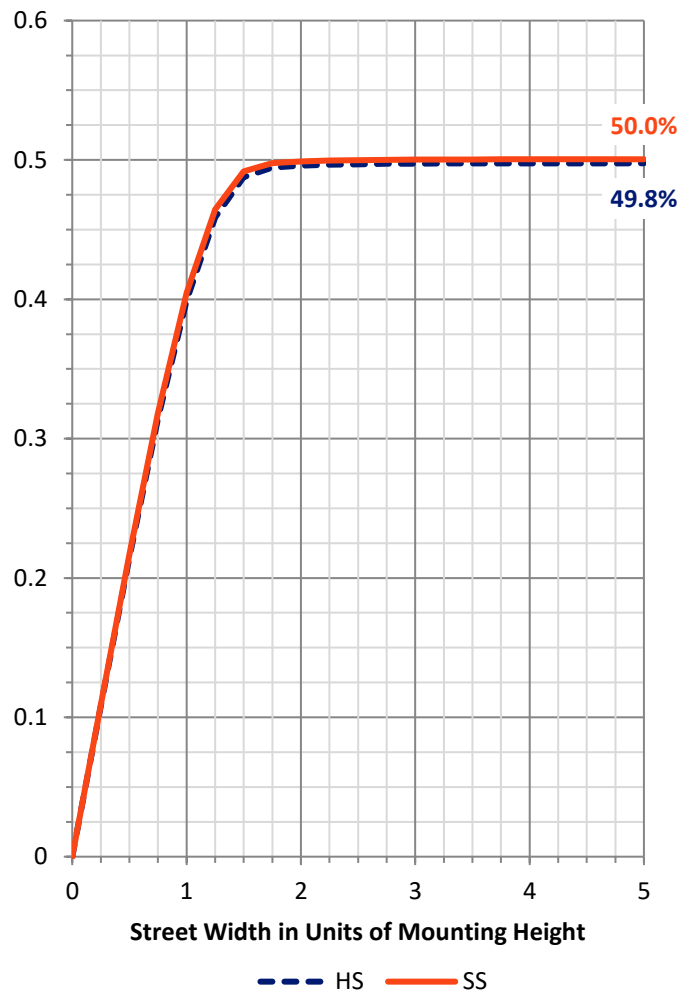
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1776.6	0.0	1776.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1776.6	0.0	1776.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	3553.2	0.0	3553.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.8	1.4
10°-20°	171.3	4.8
20°-30°	346.5	9.8
30°-40°	642.9	18.1
40°-50°	1067.2	30.0
50°-60°	1089.1	30.7
60°-70°	178.6	5.0
70°-80°	7.8	0.2
80°-90°	0.1	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°	3553.2	100.0
0°-180°	3553.2	100.0

**Coefficient of Utilization**



REPORT NUMBER: P632031

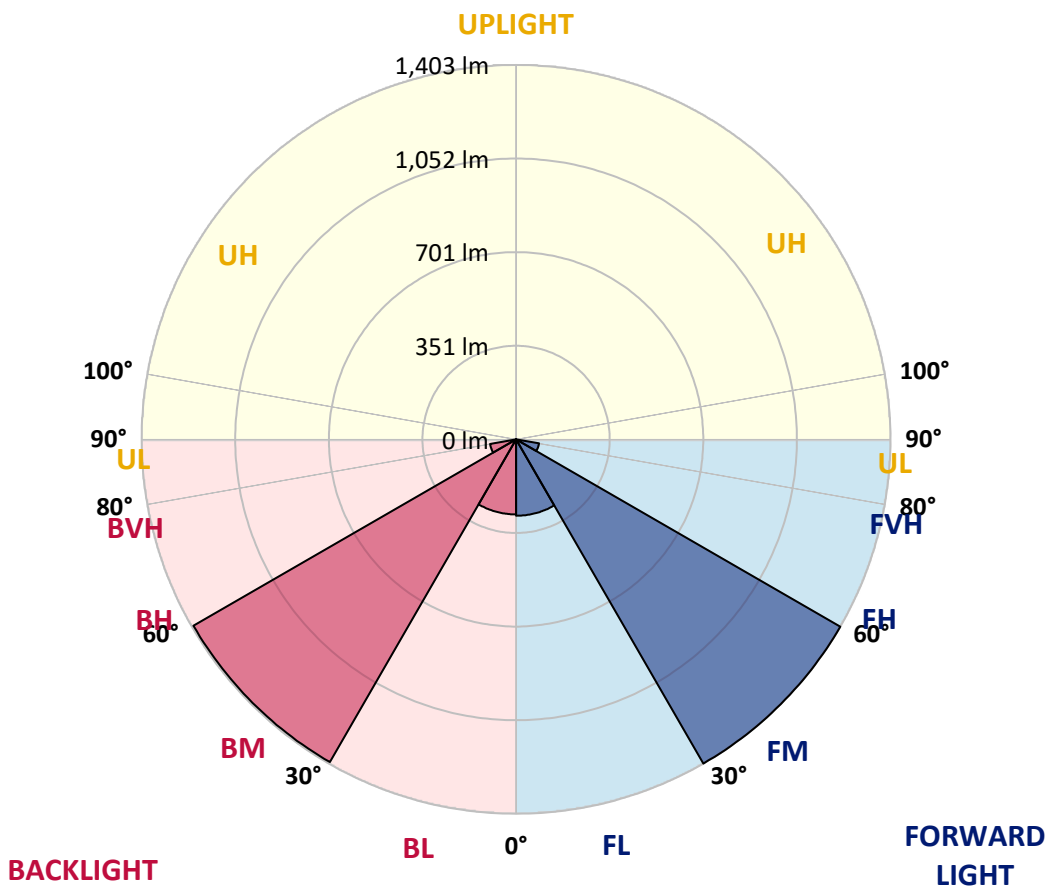
CATALOG NUMBER: GWS-SA2B-830-U-RW-W-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	286.3	8.1			
FM (30°-60°)	1403.0	39.5			
FH (60°-80°)	87.4	2.5			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	281.3	7.9	B1/500		
BM (30°-60°)	1396.2	39.3	B2/2500		
BH (60°-80°)	99.1	2.8	B0/110		G0/660
BVH (80°-90°)	0.1	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-G0**

Type V Short





REPORT NUMBER: P632031

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	505.4	505.4	505.4	505.4	505.4	505.4	505.4	505.4	505.4	505.4	505.4
2.5°	496.0	497.1	498.7	500.3	502.2	504.2	505.4	508.9	508.1	511.3	511.3
5°	490.5	491.6	493.6	497.1	501.5	505.8	508.9	516.0	519.9	526.2	528.6
7.5°	493.2	494.8	497.1	502.6	509.3	516.0	519.5	530.9	538.8	550.6	557.3
10°	502.2	503.8	507.7	517.2	525.8	535.3	539.6	554.1	566.7	582.8	592.2
12.5°	512.5	514.4	522.3	536.4	551.4	563.9	569.8	585.9	598.9	617.0	631.9
15°	523.1	526.2	538.4	559.2	580.4	597.3	603.6	620.9	633.9	653.2	670.0
17.5°	547.8	551.4	565.1	587.5	616.6	636.3	641.8	659.8	669.7	682.6	700.3
20°	578.9	585.6	602.5	629.6	661.4	680.3	684.2	701.9	701.1	706.6	721.9
22.5°	617.4	622.1	640.6	672.8	708.6	729.4	738.4	745.9	736.1	731.4	741.2
25°	657.5	663.0	683.0	718.4	758.5	782.4	789.9	795.8	780.1	762.4	763.6
27.5°	709.3	713.3	732.9	770.7	810.7	837.9	844.5	854.8	833.9	805.6	797.8
30°	771.0	775.0	795.8	835.5	875.2	898.4	908.6	921.2	898.4	863.0	854.0
32.5°	843.4	847.3	874.0	914.9	947.5	972.7	982.5	995.8	977.8	938.1	927.9
35°	929.8	932.2	963.6	1008.0	1042.6	1067.0	1073.7	1089.4	1069.3	1029.6	1024.1
37.5°	1030.0	1032.8	1067.0	1118.5	1153.8	1180.9	1191.5	1195.9	1171.5	1127.1	1122.8
40°	1140.1	1149.1	1182.5	1237.9	1277.6	1311.8	1321.2	1306.7	1272.5	1212.0	1204.1
42.5°	1254.8	1262.7	1300.0	1360.1	1406.1	1441.1	1441.5	1410.1	1351.9	1268.2	1256.4
45°	1350.3	1353.5	1401.8	1462.3	1518.9	1543.7	1546.0	1489.0	1401.4	1300.8	1275.6
47.5°	1415.9	1421.1	1463.1	1521.3	1583.8	1606.2	1601.4	1530.3	1425.0	1322.0	1280.4
50°	1416.7	1425.4	1471.0	1527.2	1587.7	1614.8	1608.1	1542.1	1438.3	1322.8	1269.0
52.5°	1291.4	1305.5	1379.8	1461.1	1553.9	1600.3	1601.8	1557.4	1433.2	1310.2	1258.8
55°	974.2	989.6	1083.1	1221.8	1401.0	1530.3	1552.7	1539.3	1427.3	1315.7	1276.8
57.5°	515.6	503.8	555.7	693.2	918.4	1147.1	1212.8	1319.7	1361.7	1322.4	1310.2
60°	112.4	119.9	159.6	215.0	358.4	539.6	603.6	786.8	1004.5	1101.2	1171.1
62.5°	48.3	47.6	49.5	56.2	82.1	136.8	167.0	272.7	430.3	591.1	699.9
65°	39.7	40.1	41.7	41.7	38.9	39.3	41.3	62.5	100.6	141.1	189.4
67.5°	29.9	30.3	33.0	33.8	31.8	28.3	27.9	23.6	24.8	31.0	32.2
70°	18.9	18.9	20.4	21.2	21.2	19.6	19.3	16.9	16.5	18.9	21.2
72.5°	10.2	10.2	11.0	11.4	11.0	10.6	10.6	10.2	9.8	11.4	14.5
75°	4.3	4.3	4.7	4.7	4.3	4.3	4.3	4.3	4.3	5.1	7.9
77.5°	0.8	1.2	1.6	1.2	0.8	0.8	0.8	1.2	1.2	1.6	2.4
80°	0.4	0.4	0.8	0.4	0.0	0.0	0.0	0.0	0.4	0.4	0.4
82.5°	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
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



REPORT NUMBER: P632031

CATALOG NUMBER: GWS-SA2B-830-U-RW-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	505.4	505.4	505.4	505.4	505.4	505.4	505.4	505.4	505.4	505.4	505.4
2.5°	514.0	509.7	511.3	512.1	510.9	510.1	505.8	504.6	502.6	499.5	498.7
5°	531.3	527.8	527.4	525.0	519.5	512.9	504.6	501.1	497.1	493.2	492.4
7.5°	560.4	556.1	553.3	545.5	532.9	522.3	508.5	501.1	496.0	490.8	489.7
10°	597.7	592.6	584.8	570.2	553.3	538.0	521.9	512.1	504.2	497.1	496.7
12.5°	637.4	631.9	617.8	599.3	578.9	564.7	544.3	530.5	518.7	508.1	507.0
15°	679.1	672.4	653.2	631.1	612.3	597.7	575.3	553.3	535.3	519.9	518.4
17.5°	710.9	702.7	679.9	663.4	648.0	633.1	608.0	578.9	554.9	536.4	532.1
20°	731.0	723.1	701.5	692.5	685.4	674.8	644.9	614.6	587.9	565.1	561.2
22.5°	750.2	740.8	721.9	721.9	727.4	723.1	690.9	656.3	624.9	598.5	592.6
25°	771.8	764.4	751.0	762.0	775.8	775.4	742.4	699.1	663.0	633.5	627.6
27.5°	803.3	795.8	791.1	811.9	829.2	828.0	791.9	745.1	707.0	677.9	672.4
30°	858.7	851.6	846.5	871.7	893.7	885.4	845.7	800.5	762.0	729.0	725.1
32.5°	932.6	925.1	918.4	943.6	963.2	952.6	914.9	872.4	828.0	795.8	787.9
35°	1029.6	1013.9	1007.2	1037.1	1045.4	1033.6	997.4	960.1	912.9	876.0	870.9
37.5°	1129.8	1111.4	1106.7	1132.6	1146.0	1141.6	1099.2	1060.3	1009.2	968.3	962.4
40°	1215.5	1198.6	1190.4	1230.8	1261.1	1263.9	1225.7	1178.2	1118.1	1075.6	1065.0
42.5°	1265.8	1251.3	1249.3	1312.2	1361.7	1397.1	1351.5	1302.4	1239.1	1191.2	1182.5
45°	1277.2	1267.8	1284.3	1366.8	1443.8	1508.3	1469.4	1417.5	1349.1	1298.4	1290.2
47.5°	1276.0	1272.9	1302.4	1395.1	1492.6	1572.0	1552.7	1494.2	1428.1	1375.1	1367.2
50°	1259.1	1259.5	1308.7	1409.3	1512.2	1589.3	1570.0	1515.8	1456.8	1404.6	1398.3
52.5°	1252.5	1250.1	1296.9	1404.9	1532.3	1581.4	1538.2	1477.3	1411.6	1347.2	1337.7
55°	1276.0	1270.1	1298.4	1401.4	1534.6	1577.1	1463.1	1331.1	1196.7	1120.4	1114.1
57.5°	1311.4	1305.1	1318.5	1375.5	1411.6	1311.4	1076.8	863.8	725.5	666.9	641.4
60°	1171.1	1166.8	1156.6	1087.8	933.0	703.8	479.4	305.7	219.7	177.6	177.6
62.5°	726.6	720.7	665.3	494.4	359.2	207.9	114.4	71.5	54.2	50.7	50.3
65°	204.0	202.8	167.8	118.7	75.5	46.8	41.3	42.1	41.3	40.1	39.7
67.5°	30.7	33.8	33.8	27.5	26.3	29.5	34.6	36.9	35.0	33.0	32.2
70°	19.6	21.2	20.4	17.7	18.9	22.0	24.8	25.2	24.0	22.0	21.6
72.5°	13.8	15.3	12.6	11.4	11.8	13.0	14.1	14.1	13.8	13.0	12.2
75°	8.3	8.3	5.9	5.5	5.5	5.9	5.9	6.7	6.7	6.3	5.9
77.5°	2.8	3.1	2.0	1.6	1.6	1.6	2.0	2.4	2.4	2.0	1.6
80°	0.4	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8	0.4
82.5°	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
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)