

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: P629557

Luminaire Tested: GWS-SA1B-830-U-AFL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P629557  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1B-830-U-AFL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: (16) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

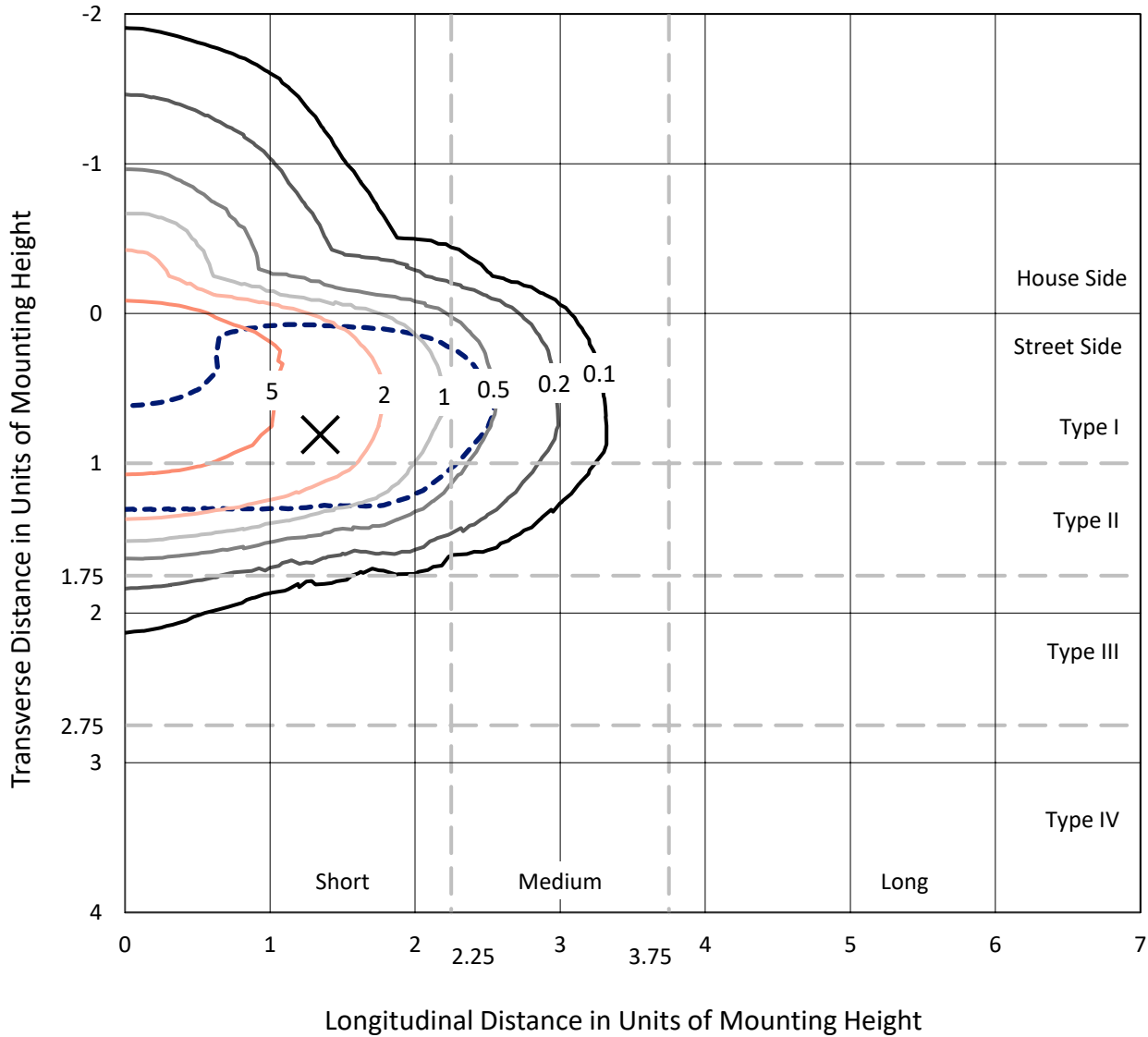
Lumens per Lamp: N/A  
Luminaire Lumens: 2899.2 lumens  
Efficiency: N/A  
Efficacy: 116.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 25  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

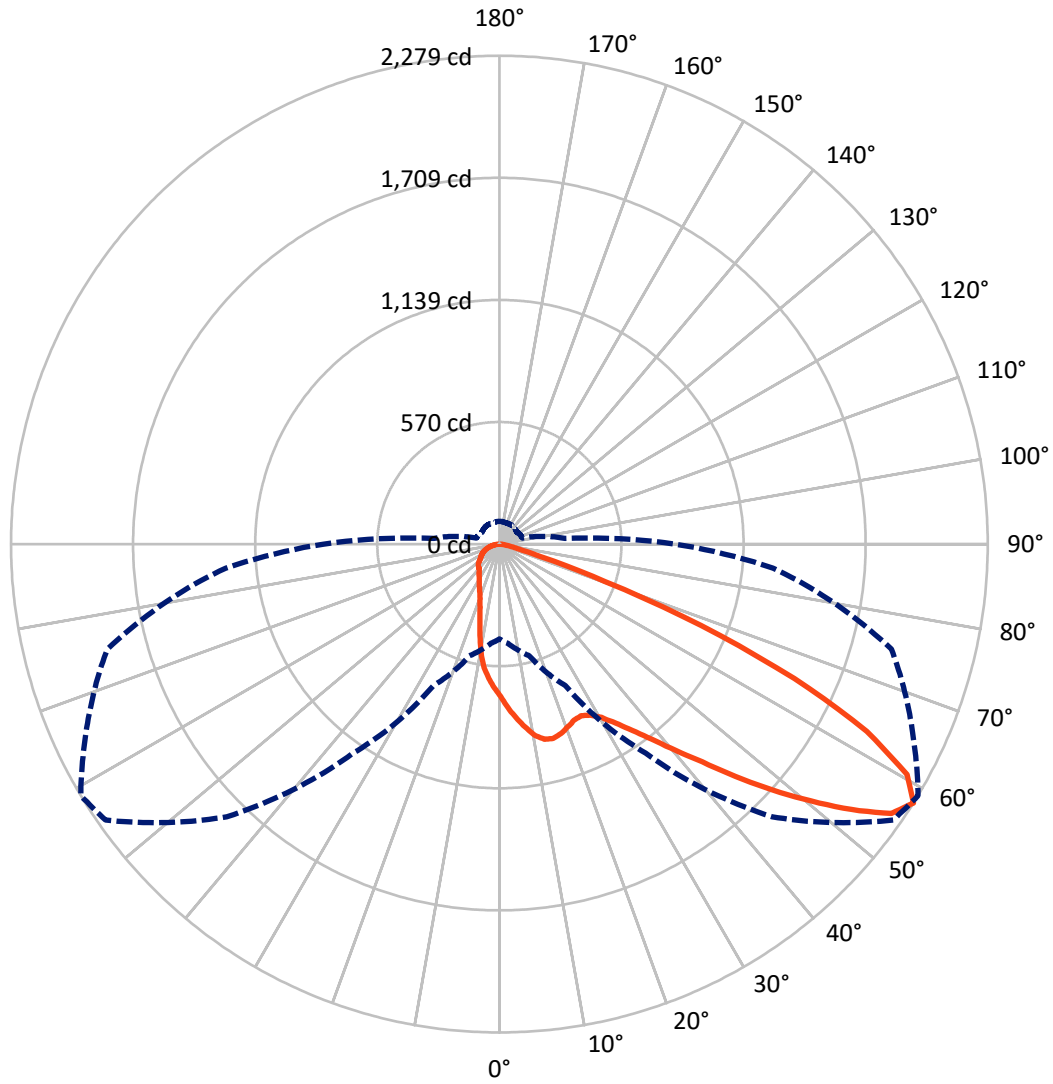
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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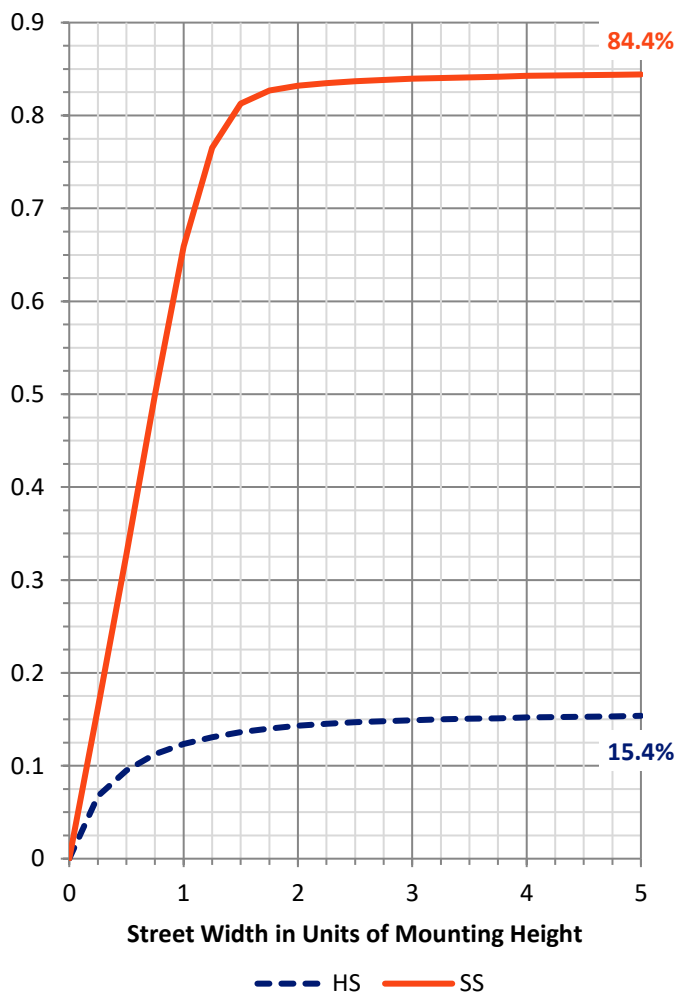
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	449.9	0.0	449.9
	% Fixture	15.5	0.0	15.5
<b>Street Side</b>	Lumens	2449.3	0.0	2449.3
	% Fixture	84.5	0.0	84.5
<b>Total</b>	Lumens	2899.2	0.0	2899.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.1	2.3
10°-20°	167.5	5.8
20°-30°	271.4	9.4
30°-40°	436.7	15.1
40°-50°	678.1	23.4
50°-60°	730.4	25.2
60°-70°	423.9	14.6
70°-80°	110.7	3.8
80°-90°	14.6	0.5
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°	2899.2	100.0
0°-180°	2899.2	100.0

**Coefficient of Utilization**



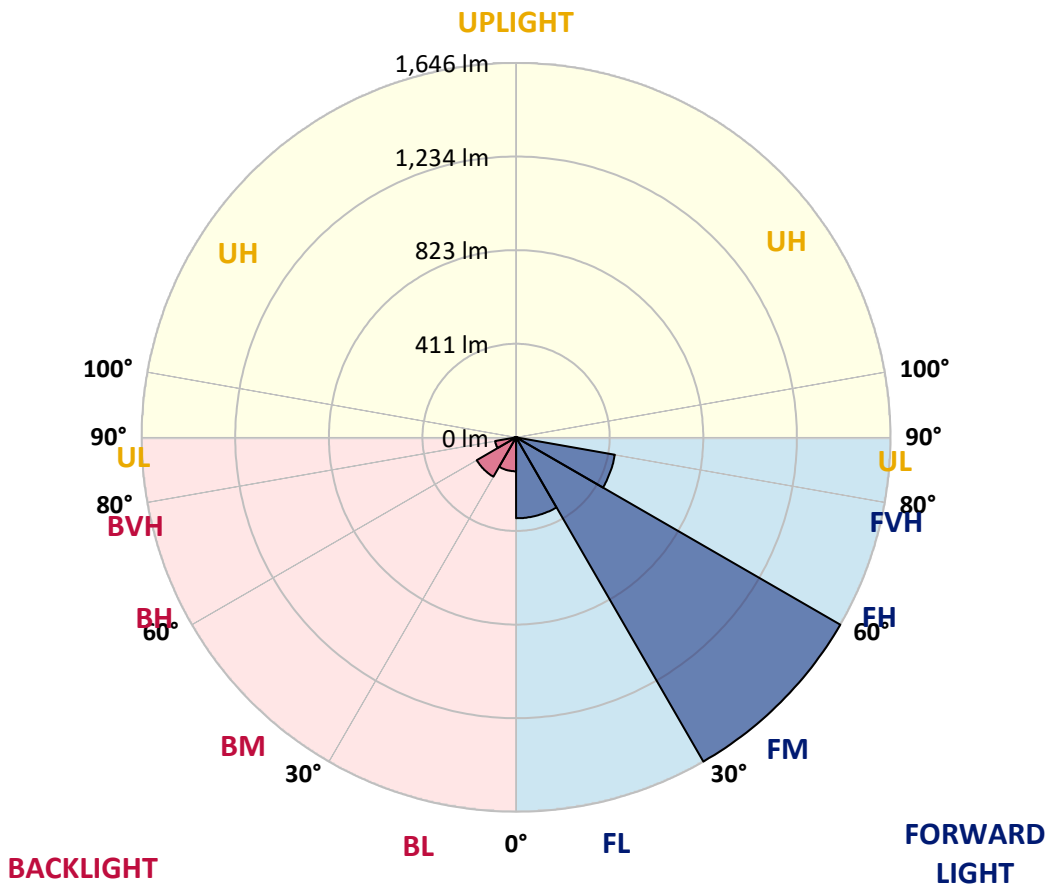
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	355.7	12.3			
FM (30°-60°)	1645.6	56.8			
FH (60°-80°)	441.0	15.2			G0/660
FVH (80°-90°)	7.0	0.2			G0/10
BL (0°-30°)	149.3	5.1	B1/500		
BM (30°-60°)	199.5	6.9	B0/220		
BH (60°-80°)	93.6	3.2	B0/110		G0/110
BVH (80°-90°)	7.6	0.3			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	711.7	711.7	711.7	711.7	711.7	711.7	711.7	711.7	711.7	711.7	711.7
2.5°	807.2	800.5	805.2	796.8	793.3	784.2	772.3	764.4	752.1	736.2	722.3
5°	887.4	882.7	883.8	874.8	866.8	851.5	827.2	813.7	792.9	760.9	731.1
7.5°	885.0	890.5	893.5	901.3	903.5	902.1	880.3	861.5	838.6	790.5	745.6
10°	793.3	803.7	813.1	839.7	871.9	912.7	917.8	906.6	883.5	828.2	762.9
12.5°	693.5	701.5	709.9	741.7	791.1	872.7	928.0	935.0	925.8	865.6	782.5
15°	644.5	648.2	656.2	677.2	716.6	807.2	910.3	940.7	957.2	905.2	804.6
17.5°	642.5	644.1	648.0	659.2	686.6	756.6	878.2	929.3	981.9	947.0	830.3
20°	684.8	680.5	678.0	677.8	691.3	739.7	847.2	910.9	993.6	989.9	857.8
22.5°	743.3	744.8	739.5	726.4	724.8	751.7	831.7	892.3	997.0	1027.8	883.3
25°	826.4	833.5	817.8	792.9	780.7	786.6	841.3	886.6	996.6	1059.5	899.3
27.5°	923.3	928.9	912.9	880.3	855.0	840.7	869.9	903.5	1000.1	1086.8	908.9
30°	1033.8	1035.6	1013.8	979.5	942.5	911.9	917.4	938.5	1017.8	1122.8	920.1
32.5°	1168.7	1176.4	1143.4	1089.1	1037.4	998.3	981.3	994.8	1056.2	1165.2	937.4
35°	1339.9	1342.6	1300.5	1222.8	1149.7	1095.4	1059.9	1067.0	1114.6	1224.6	963.6
37.5°	1501.4	1504.0	1459.3	1387.1	1282.6	1208.3	1156.8	1153.6	1189.3	1308.5	1006.2
40°	1603.8	1611.4	1591.4	1546.1	1446.3	1346.0	1276.2	1265.0	1287.3	1411.1	1065.6
42.5°	1658.9	1662.2	1661.8	1667.7	1608.3	1508.7	1410.9	1388.5	1403.4	1522.0	1125.6
45°	1659.3	1667.5	1689.3	1746.3	1748.9	1686.9	1581.2	1546.1	1532.4	1633.6	1188.3
47.5°	1585.0	1593.8	1653.8	1765.9	1848.5	1862.6	1785.1	1714.6	1657.1	1729.7	1239.7
50°	1360.1	1382.2	1496.5	1694.6	1868.1	2003.4	1979.6	1884.0	1767.9	1804.0	1271.9
52.5°	1164.8	1164.0	1234.4	1493.4	1786.3	2065.5	2167.7	2058.3	1877.5	1851.2	1280.1
55°	852.9	857.6	929.7	1142.1	1567.9	2005.5	2271.2	2218.8	2003.2	1876.3	1276.8
57.5°	442.3	465.6	539.4	728.8	1191.3	1798.9	2243.7	2278.6	2131.0	1894.0	1281.1
60°	223.5	219.0	245.5	348.0	690.3	1405.0	2073.9	2185.1	2154.1	1907.9	1283.8
62.5°	149.2	148.0	140.6	161.2	282.1	832.1	1767.9	1923.8	1993.8	1875.3	1249.9
65°	129.2	126.7	113.3	112.5	137.0	345.1	1295.8	1512.4	1647.9	1730.2	1168.9
67.5°	116.3	112.7	99.0	92.3	98.4	151.6	730.3	1014.4	1216.8	1463.2	991.3
70°	103.9	102.0	88.4	78.6	78.0	92.5	269.0	523.5	744.6	998.3	724.8
72.5°	93.1	89.8	78.2	68.8	64.1	65.5	116.7	201.7	385.3	622.7	433.5
75°	80.6	78.2	68.0	58.6	52.9	48.0	71.2	93.3	175.7	295.9	204.7
77.5°	62.3	60.6	53.7	46.5	43.3	35.7	43.3	58.8	81.2	124.7	106.5
80°	36.1	37.1	40.0	36.3	31.8	25.5	28.2	33.9	48.8	67.6	60.4
82.5°	18.2	19.4	25.9	21.0	19.0	14.9	16.7	20.0	25.5	37.4	23.7
85°	1.4	1.4	4.7	5.3	6.5	5.3	6.7	8.2	11.6	14.9	8.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.0	1.8	3.5	2.2
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°	711.7	711.7	711.7	711.7	711.7	711.7	711.7	711.7	711.7	711.7	711.7
2.5°	712.9	702.5	690.1	679.9	664.1	655.8	645.2	632.1	626.8	624.3	622.9
5°	714.3	696.0	669.4	645.0	617.8	596.4	572.5	547.6	533.3	529.8	527.4
7.5°	719.7	693.9	651.7	611.3	560.9	514.1	468.6	423.5	400.4	391.7	390.9
10°	727.0	693.1	633.7	566.6	481.5	407.6	354.3	319.0	304.1	299.2	297.6
12.5°	736.2	692.5	610.1	504.5	389.8	320.0	289.6	283.9	285.9	285.5	285.5
15°	747.8	693.3	581.5	434.3	315.3	277.8	278.4	285.1	291.5	292.5	292.5
17.5°	760.5	692.5	540.0	363.9	270.6	267.8	277.2	286.6	292.3	293.1	293.1
20°	774.2	688.6	487.8	297.6	251.0	261.5	271.7	279.0	282.5	283.3	283.3
22.5°	782.3	677.6	431.1	251.9	238.6	251.5	258.2	265.7	266.1	259.6	259.4
25°	781.1	657.0	366.4	222.5	225.3	236.6	245.1	239.8	233.3	229.6	229.0
27.5°	773.3	626.0	300.4	200.2	209.6	222.3	219.6	215.1	213.5	209.4	209.0
30°	763.5	587.8	241.2	182.9	193.3	204.9	200.8	200.4	198.8	194.3	194.3
32.5°	754.1	548.4	196.5	170.0	182.9	183.7	189.4	189.8	189.0	181.2	180.4
35°	751.5	509.0	166.3	159.8	172.7	172.3	180.4	180.2	166.1	155.3	155.1
37.5°	759.5	469.0	148.4	151.4	158.6	163.9	170.4	158.6	153.9	147.4	147.0
40°	776.4	432.1	139.2	146.5	149.6	157.4	147.2	148.0	146.7	141.8	141.2
42.5°	798.8	400.6	134.1	144.9	144.5	146.5	135.3	138.6	140.4	136.7	136.1
45°	820.5	373.3	131.4	138.8	140.8	129.0	126.7	129.8	132.7	131.2	130.6
47.5°	836.4	349.6	130.0	130.4	136.1	123.1	119.4	120.8	124.3	124.9	124.7
50°	841.3	329.4	128.4	123.5	122.3	117.2	114.3	113.9	118.0	120.8	121.2
52.5°	831.9	311.5	124.1	117.4	111.4	112.3	111.2	109.2	113.3	117.2	117.6
55°	818.0	301.3	117.4	111.4	104.5	107.8	108.2	106.3	109.0	111.6	111.6
57.5°	819.1	307.2	110.8	105.9	98.4	102.7	104.9	104.1	104.1	106.1	106.3
60°	825.8	315.7	106.5	99.0	92.3	96.7	101.8	101.0	99.2	101.8	101.8
62.5°	806.4	304.3	103.7	92.3	85.7	91.0	97.2	96.7	94.7	99.0	99.4
65°	749.2	273.7	100.4	83.9	79.2	85.3	90.6	92.0	90.2	95.9	96.9
67.5°	628.0	230.2	94.1	75.9	72.7	78.4	83.5	85.5	84.1	90.8	91.6
70°	468.2	186.3	84.1	67.1	64.7	69.8	74.5	75.3	75.5	83.5	84.3
72.5°	298.6	144.9	70.8	57.4	55.5	59.4	62.9	66.1	67.6	75.1	74.9
75°	166.5	107.8	56.9	48.6	45.3	48.4	52.5	56.3	60.4	71.4	72.7
77.5°	95.9	75.7	45.1	39.0	35.1	38.4	41.8	47.4	59.6	69.2	68.0
80°	54.1	49.2	34.1	28.6	26.1	28.6	31.2	41.6	46.9	51.0	51.6
82.5°	25.3	27.6	23.3	17.6	17.6	19.2	21.6	32.2	35.5	29.0	25.3
85°	9.2	12.5	11.4	9.0	8.0	7.8	13.5	18.4	11.4	10.2	8.8
87.5°	2.4	3.5	3.3	2.2	1.2	1.0	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)