

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: P629569

Luminaire Tested: GWS-SA1B-830-U-SL4-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P629569  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1B-830-U-SL4-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (16) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

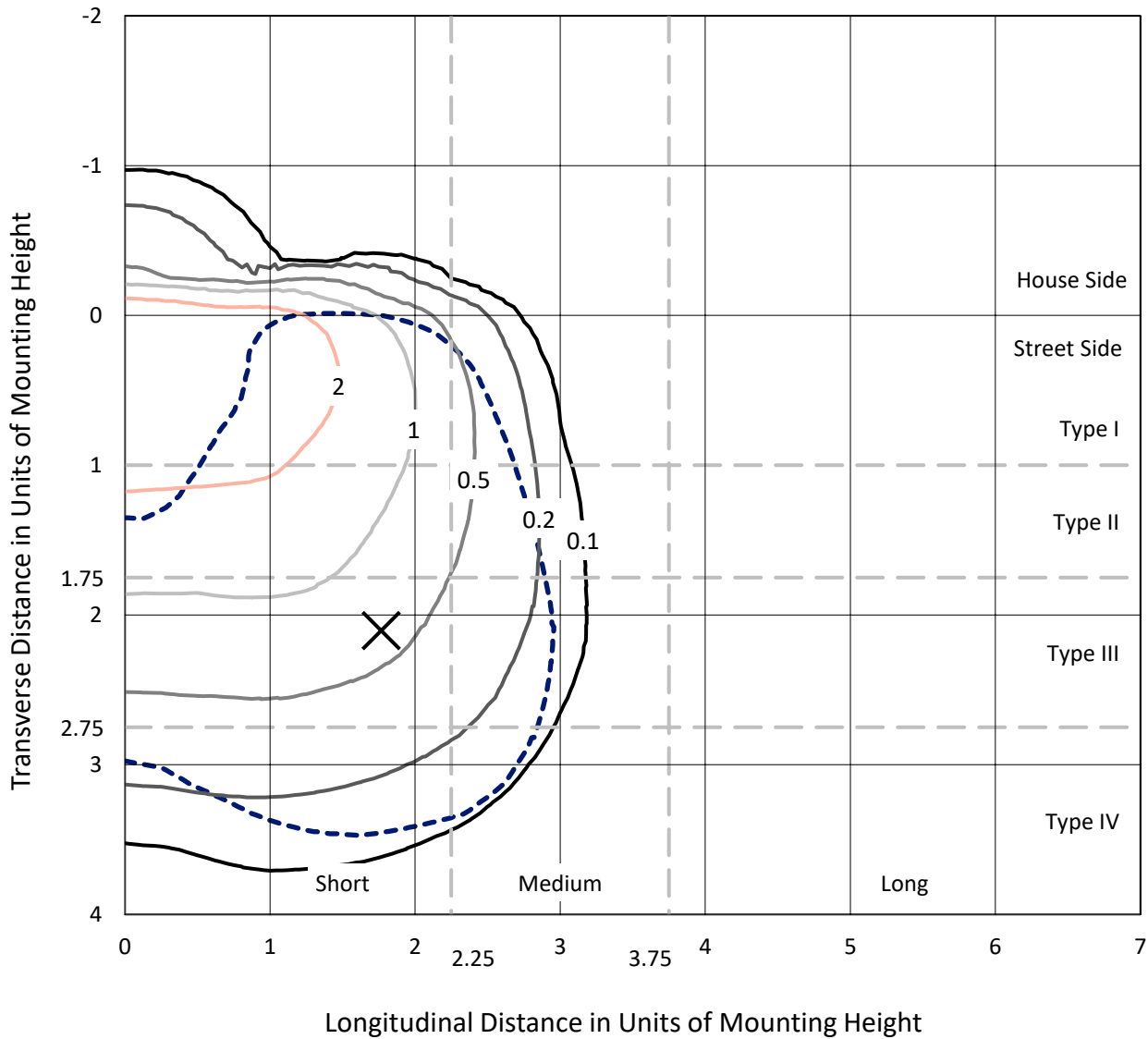
Lumens per Lamp: N/A  
Luminaire Lumens: 2243.3 lumens  
Efficiency: N/A  
Efficacy: 89.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 25  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

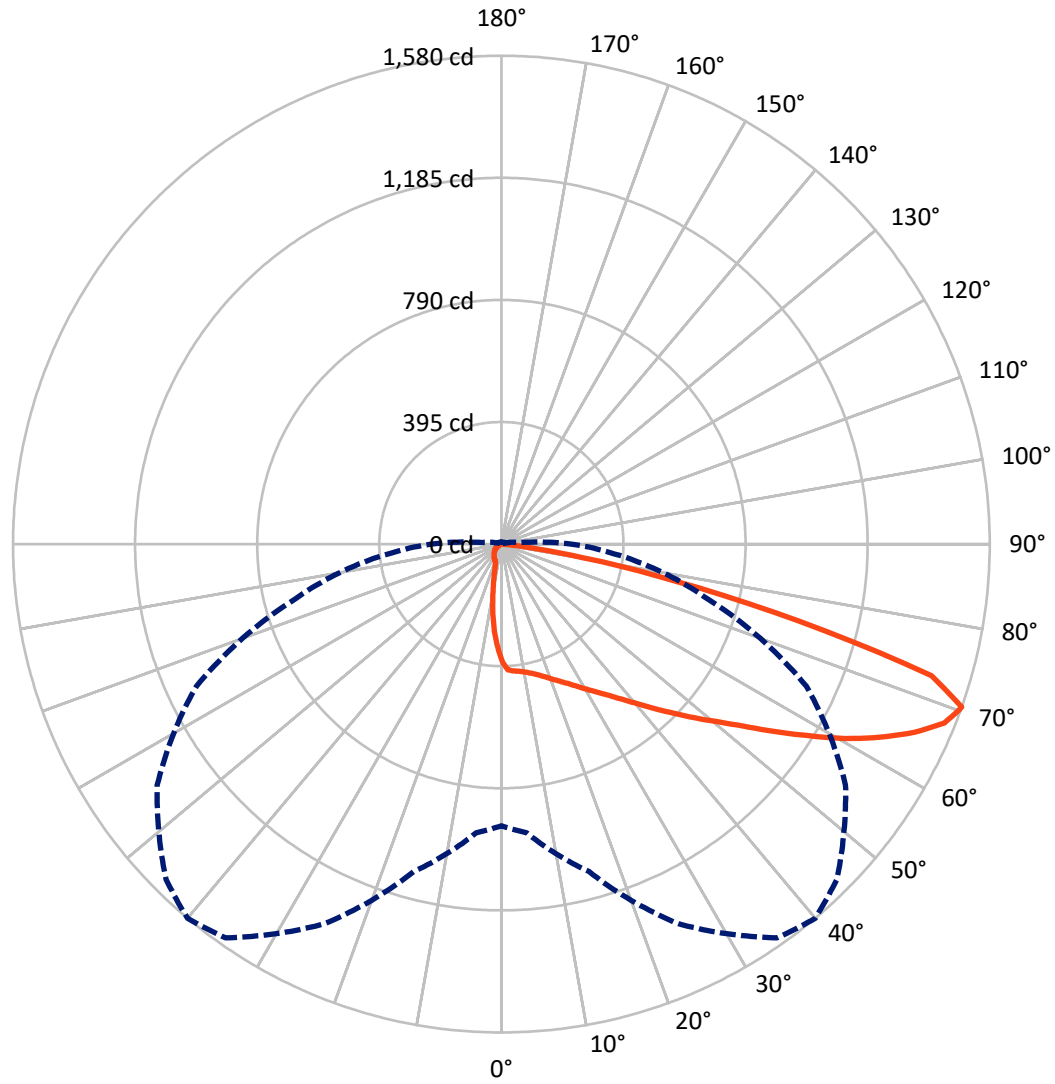
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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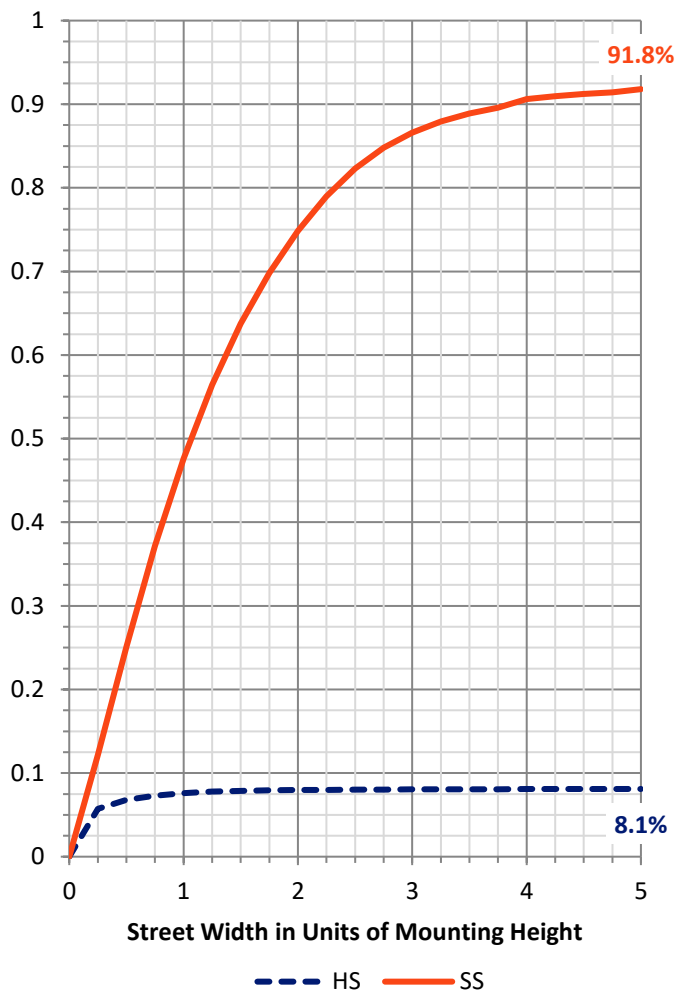
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	183.4	0.0	183.4
	% Fixture	8.2	0.0	8.2
<b>Street Side</b>	Lumens	2059.9	0.0	2059.9
	% Fixture	91.8	0.0	91.8
<b>Total</b>	Lumens	2243.3	0.0	2243.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.2	1.4
10°-20°	81.6	3.6
20°-30°	136.6	6.1
30°-40°	214.5	9.6
40°-50°	339.3	15.1
50°-60°	494.9	22.1
60°-70°	613.5	27.4
70°-80°	310.4	13.8
80°-90°	20.3	0.9
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°	2243.3	100.0
0°-180°	2243.3	100.0

**Coefficient of Utilization**



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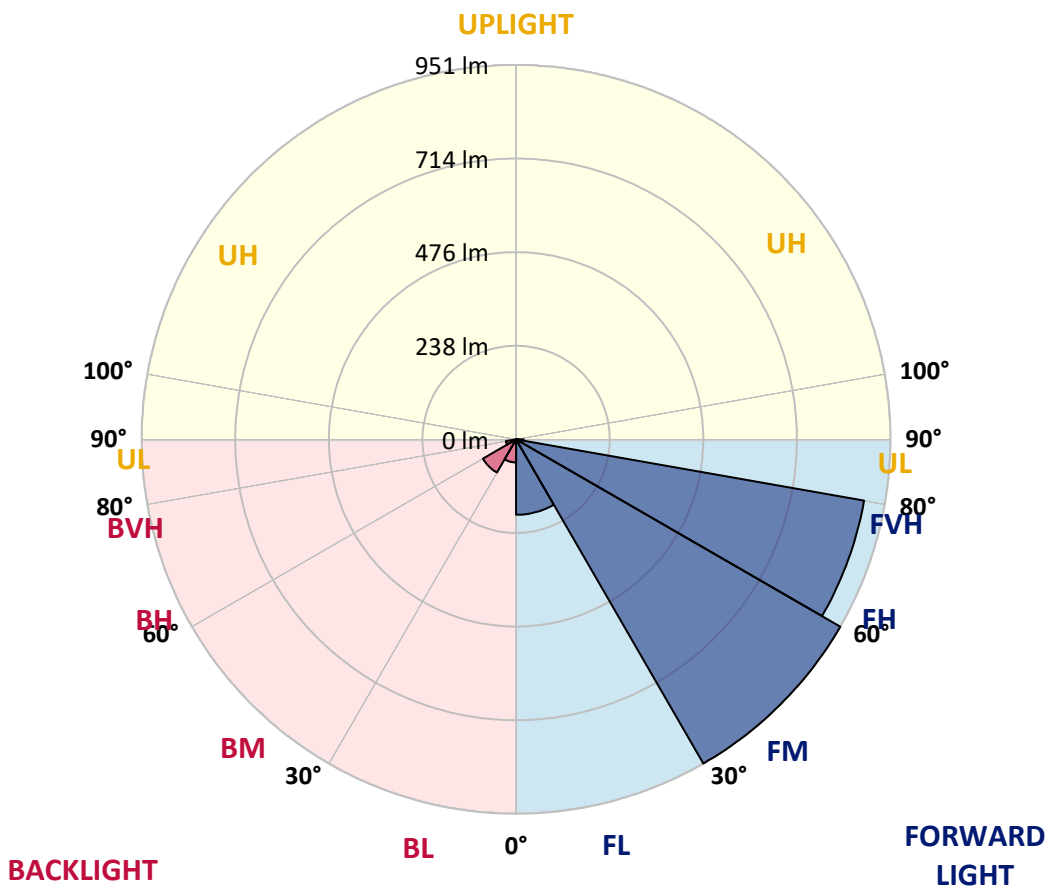
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	191.8	8.5			
FM (30°-60°)	951.4	42.4			
FH (60°-80°)	897.8	40.0			G1/1800
FVH (80°-90°)	18.9	0.8			G1/100
BL (0°-30°)	58.6	2.6	B0/110		
BM (30°-60°)	97.4	4.3	B0/220		
BH (60°-80°)	26.2	1.2	B0/110		G0/110
BVH (80°-90°)	1.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	380.7	380.7	380.7	380.7	380.7	380.7	380.7	380.7	380.7	380.7	380.7
2.5°	409.2	410.7	410.5	411.1	409.6	407.4	407.0	403.9	398.4	391.5	383.7
5°	417.6	419.2	418.0	417.4	414.7	412.3	411.7	408.4	402.1	392.7	379.2
7.5°	424.7	425.2	424.3	422.9	419.0	415.8	413.5	409.0	401.5	392.1	376.6
10°	426.0	425.8	426.2	426.4	423.9	421.1	419.2	413.1	403.5	393.5	376.8
12.5°	424.5	424.5	427.2	430.3	430.3	428.8	427.0	421.5	410.3	398.4	380.9
15°	426.4	427.0	432.1	437.8	439.6	438.2	437.4	431.7	420.1	407.0	388.2
17.5°	432.9	433.5	441.7	450.3	452.5	450.9	449.2	443.5	431.1	416.8	396.6
20°	442.5	444.1	454.5	465.6	467.6	465.6	462.3	454.3	441.9	427.4	404.5
22.5°	460.1	461.1	472.3	483.9	485.0	481.7	476.8	465.8	452.7	438.6	413.5
25°	483.3	484.8	496.0	507.2	504.6	499.7	492.9	480.5	465.6	451.9	425.0
27.5°	511.1	512.7	523.7	533.5	526.6	520.9	513.3	497.8	482.7	470.3	439.6
30°	541.1	542.5	552.3	561.1	551.9	545.2	536.2	520.3	505.0	495.6	460.5
32.5°	570.1	569.9	579.3	586.4	577.0	571.7	563.5	547.4	535.2	531.1	491.5
35°	597.0	597.0	604.8	611.9	605.2	602.3	594.8	581.9	575.0	579.9	532.9
37.5°	624.2	622.7	630.1	638.0	637.4	637.6	633.3	627.2	627.6	645.0	589.9
40°	646.6	646.0	654.6	665.0	673.1	679.7	677.0	679.3	692.1	724.6	662.7
42.5°	664.6	666.0	677.0	693.6	714.2	727.4	729.3	738.5	771.5	821.7	745.0
45°	685.2	685.4	700.7	726.0	758.9	779.9	787.2	810.9	857.9	922.6	835.2
47.5°	710.5	708.1	725.2	760.7	808.3	839.3	852.4	881.9	954.6	1020.9	908.7
50°	738.5	734.0	753.4	801.7	863.6	902.4	928.9	972.2	1050.5	1101.8	963.4
52.5°	770.9	766.6	788.7	848.9	929.9	977.1	1011.2	1054.8	1132.8	1163.4	996.0
55°	812.1	807.9	831.1	905.4	1008.3	1069.5	1105.2	1142.0	1209.3	1208.9	1019.7
57.5°	857.9	851.9	884.2	976.9	1106.1	1169.7	1206.1	1224.0	1267.5	1244.2	1035.6
60°	910.3	905.0	949.7	1062.0	1218.9	1277.9	1300.8	1293.4	1315.3	1265.1	1030.1
62.5°	957.7	955.2	1010.7	1152.2	1326.5	1376.3	1382.6	1350.6	1350.4	1265.5	993.0
65°	1006.9	1011.6	1094.0	1256.1	1434.7	1468.1	1457.3	1407.3	1364.5	1215.5	883.2
67.5°	1025.2	1038.9	1148.9	1350.0	1520.0	1546.1	1527.1	1435.7	1305.9	1047.3	672.5
70°	911.7	937.5	1097.1	1355.3	1555.3	1580.2	1534.7	1359.4	1088.7	693.8	368.4
72.5°	693.4	723.4	914.2	1109.7	1398.8	1455.5	1377.7	1107.5	701.7	303.9	123.7
75°	388.0	420.5	680.9	835.6	939.1	990.9	962.4	710.5	310.9	79.4	36.9
77.5°	131.2	142.1	316.8	517.0	619.9	573.3	485.4	352.9	114.3	30.2	19.6
80°	77.8	81.8	118.0	257.4	326.2	270.4	213.5	130.4	58.2	16.1	13.7
82.5°	23.3	27.6	65.1	95.5	127.8	79.6	67.4	74.5	30.2	8.8	11.4
85°	0.0	0.0	13.9	29.6	33.5	13.1	13.1	42.3	5.5	3.7	8.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.0	0.6	0.8	1.8
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°	380.7	380.7	380.7	380.7	380.7	380.7	380.7	380.7	380.7	380.7	380.7
2.5°	378.2	371.1	362.7	354.7	347.2	337.4	332.7	327.0	322.1	319.4	320.9
5°	370.7	359.4	342.3	324.9	307.4	290.9	276.0	266.0	257.0	252.3	253.3
7.5°	364.1	349.0	322.3	293.9	265.7	237.4	214.3	196.4	182.5	176.8	175.7
10°	361.3	342.3	304.5	263.7	220.4	182.3	149.6	129.8	115.7	108.8	110.0
12.5°	362.7	338.8	289.4	234.1	178.0	133.5	102.3	83.7	73.7	69.6	68.6
15°	366.8	338.0	276.0	203.9	137.4	93.3	70.6	63.1	61.0	60.6	60.6
17.5°	371.5	338.2	262.1	173.3	104.3	69.2	60.4	59.0	58.4	58.0	58.2
20°	376.2	338.2	246.2	142.3	78.4	59.8	57.6	56.5	55.9	55.7	55.7
22.5°	381.9	338.2	228.4	113.5	62.9	56.7	54.9	54.3	53.7	53.5	53.3
25°	388.8	338.4	208.8	88.8	57.2	54.1	52.7	52.0	51.4	51.0	51.0
27.5°	398.8	340.0	187.2	69.2	53.9	51.6	50.4	49.8	49.2	48.6	48.6
30°	413.3	344.1	162.9	57.2	50.8	49.0	47.8	47.4	46.7	46.1	45.9
32.5°	435.0	351.3	137.8	51.2	48.0	46.1	44.7	44.3	43.7	43.1	42.9
35°	465.2	364.3	113.3	47.6	44.3	42.5	41.6	41.4	40.6	40.0	40.0
37.5°	509.5	385.6	89.8	43.9	41.2	39.8	38.8	38.4	37.6	36.9	36.7
40°	563.5	413.1	69.8	41.0	38.4	36.9	35.9	35.3	34.3	33.5	33.1
42.5°	632.5	446.8	55.1	38.0	35.7	34.3	33.5	32.2	30.8	29.6	29.4
45°	704.4	481.5	45.5	35.1	33.3	32.0	31.0	29.4	27.4	25.9	25.5
47.5°	759.5	503.1	39.8	32.0	30.6	29.6	28.4	26.3	23.9	22.2	21.8
50°	798.9	506.4	35.5	29.2	28.4	27.4	25.5	23.1	20.4	18.8	18.4
52.5°	818.3	491.7	32.0	26.5	25.9	24.9	22.7	20.0	17.1	15.5	15.1
55°	827.0	463.9	28.8	24.3	23.5	22.2	19.8	16.9	14.1	12.7	12.2
57.5°	823.6	422.9	25.9	22.0	21.0	19.6	16.9	13.9	11.6	10.2	10.0
60°	797.9	365.4	23.1	19.8	18.6	16.9	14.3	11.4	9.4	8.4	8.2
62.5°	742.3	293.9	20.2	17.1	16.3	14.7	12.2	9.4	7.8	7.1	6.9
65°	628.7	207.8	17.3	14.5	14.1	12.5	10.2	7.8	6.7	6.3	6.1
67.5°	451.9	126.3	14.7	12.5	12.0	10.6	8.6	6.7	6.1	5.9	5.9
70°	227.2	59.8	11.6	10.2	10.2	8.8	7.3	6.1	5.9	5.7	5.7
72.5°	77.2	25.5	8.8	8.0	8.4	7.6	6.3	5.7	5.7	5.7	5.7
75°	26.3	13.5	6.1	5.7	6.1	6.1	5.5	5.5	5.7	5.7	5.7
77.5°	17.1	9.0	4.3	3.9	4.7	4.7	4.7	5.1	5.5	5.5	5.5
80°	14.1	4.9	2.9	2.7	3.5	3.5	3.9	4.7	5.1	5.1	5.1
82.5°	12.0	3.1	1.6	1.8	2.4	2.7	3.3	3.9	4.5	4.7	4.7
85°	8.2	1.6	1.2	1.4	1.6	2.0	2.7	3.3	3.7	4.1	4.1
87.5°	2.2	0.6	0.8	1.0	1.0	1.4	2.0	2.4	2.9	3.1	3.1
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)