

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: P628910

Luminaire Tested: GWS-SA1A-750-U-SL4-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628910  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1A-750-U-SL4-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (16) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

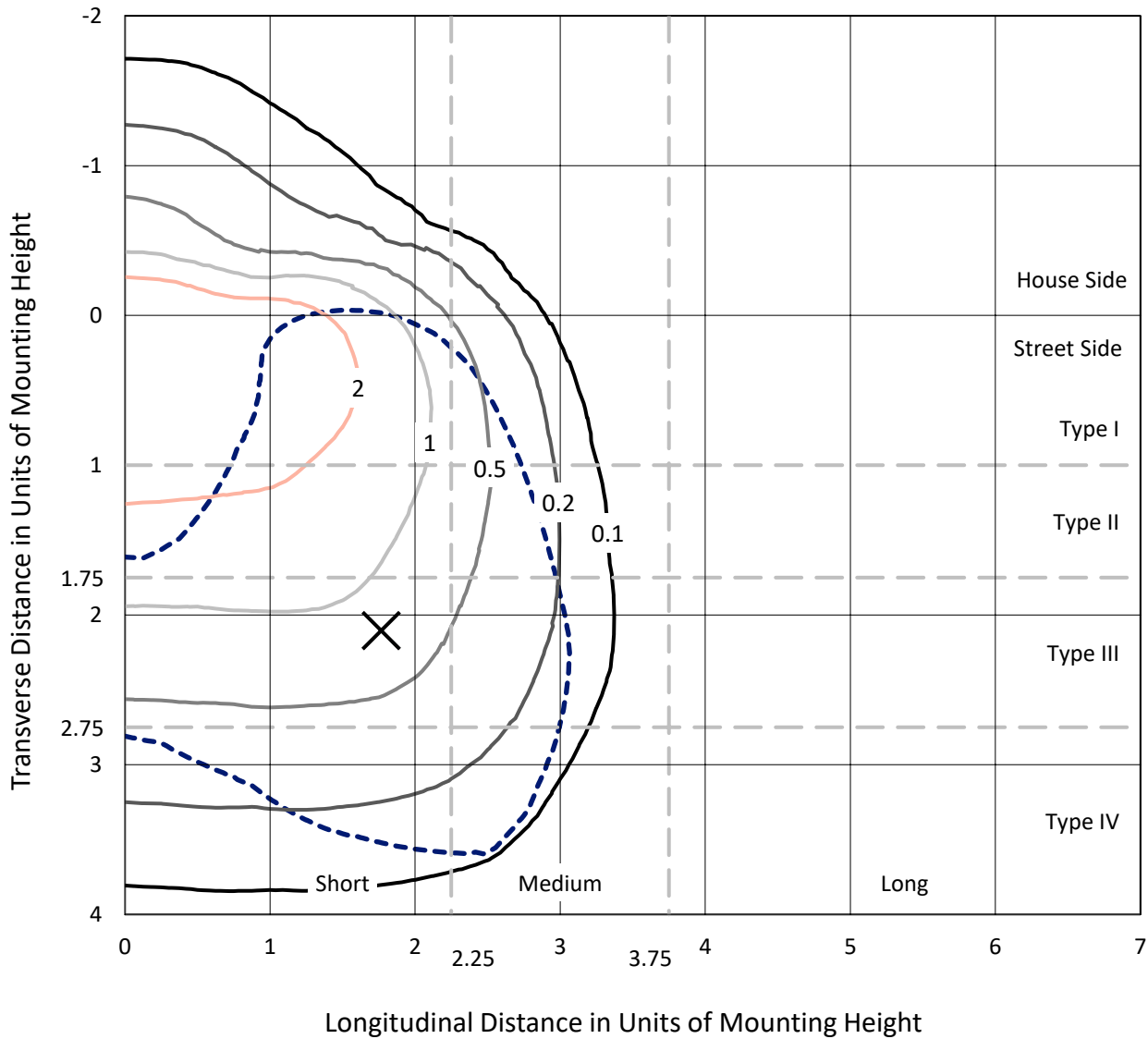
Lumens per Lamp: N/A  
Luminaire Lumens: 2793.7 lumens  
Efficiency: N/A  
Efficacy: 141.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): 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

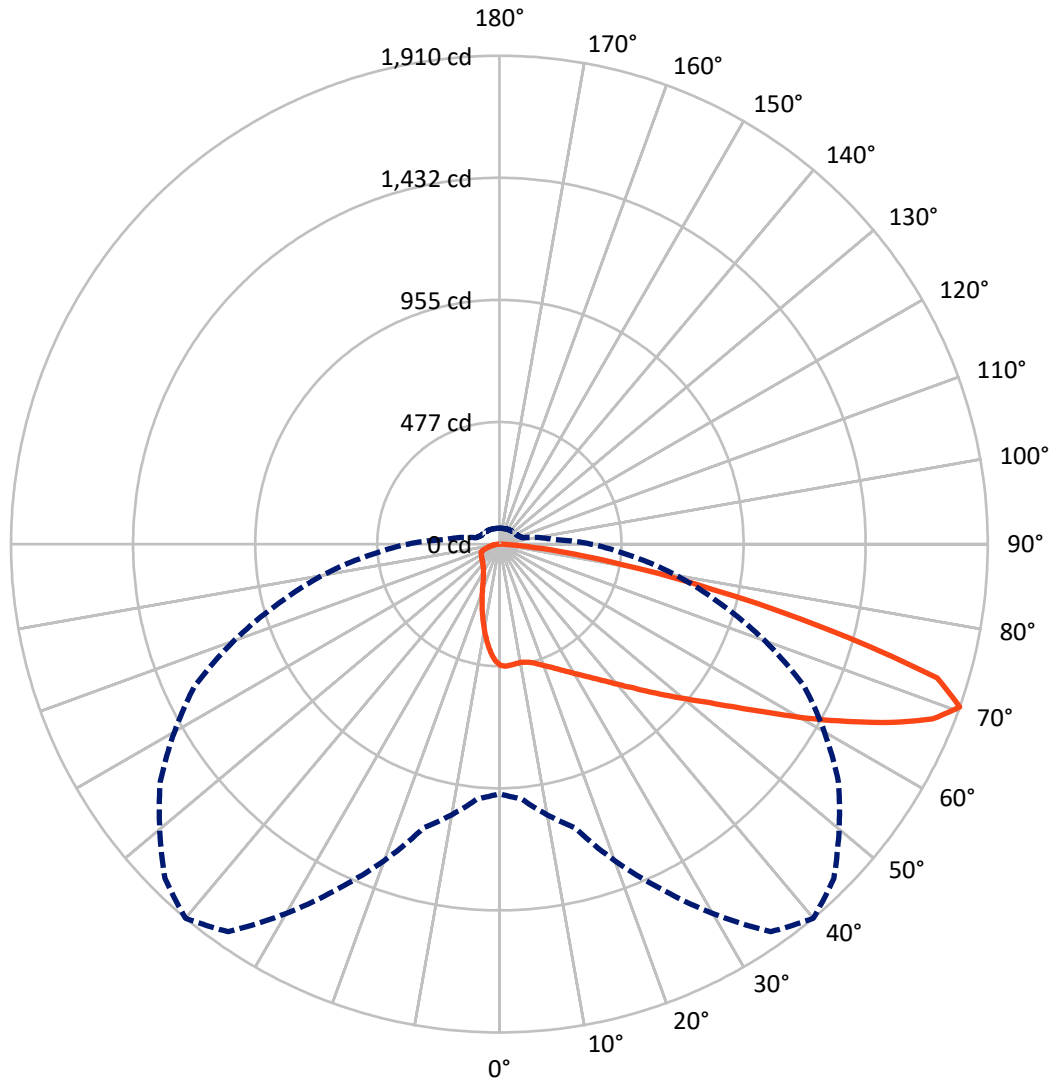
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.7 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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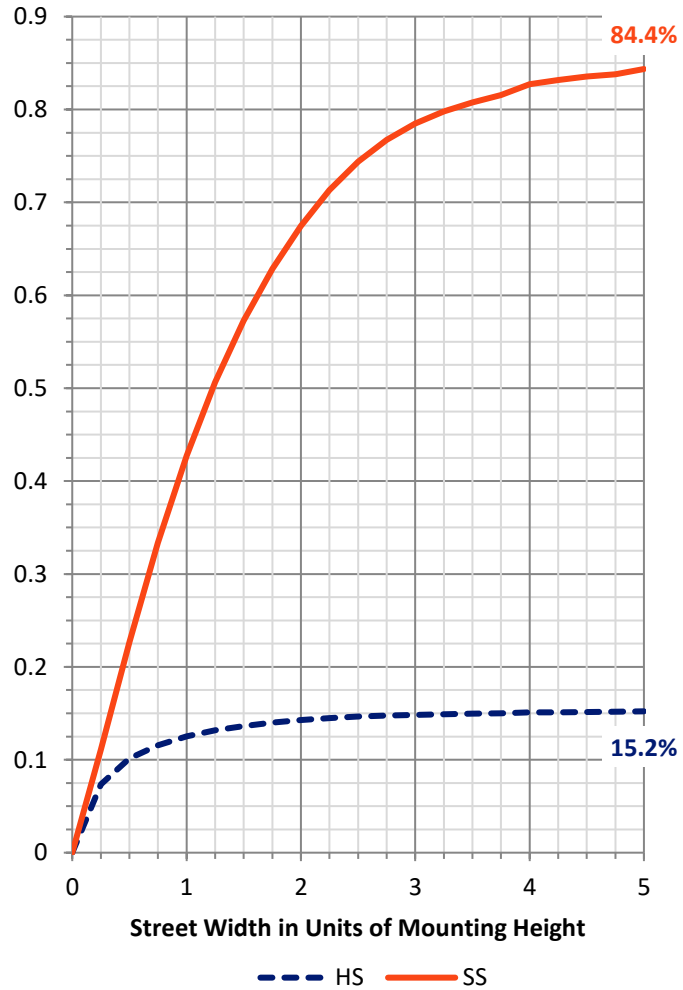
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	430.3	0.0	430.3
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	2363.4	0.0	2363.4
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	2793.7	0.0	2793.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.9	1.5
10°-20°	109.2	3.9
20°-30°	171.5	6.1
30°-40°	257.9	9.2
40°-50°	398.1	14.2
50°-60°	591.2	21.2
60°-70°	745.2	26.7
70°-80°	430.9	15.4
80°-90°	47.8	1.7
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°	2793.7	100.0
0°-180°	2793.7	100.0

**Coefficient of Utilization**



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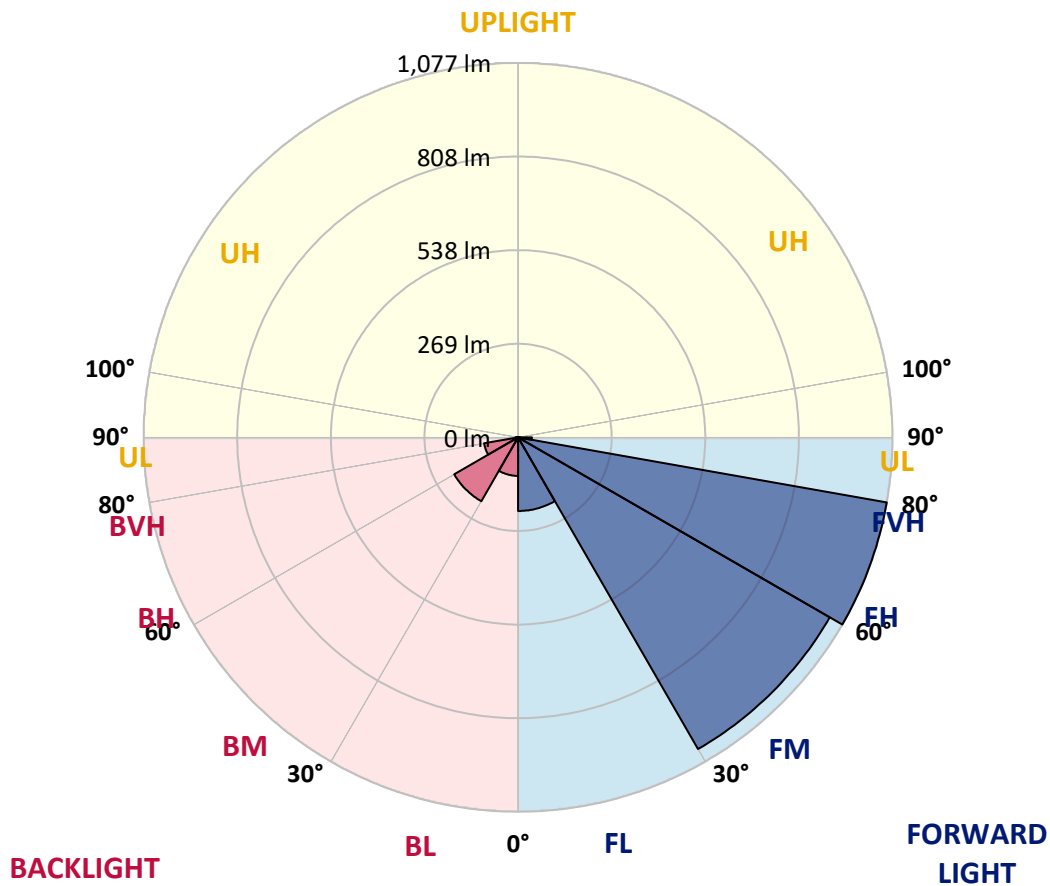
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	211.8	7.6			
FM (30°-60°)	1035.0	37.0			
FH (60°-80°)	1076.8	38.5			G1/1800
FVH (80°-90°)	39.8	1.4			G1/100
BL (0°-30°)	110.9	4.0	B1/500		
BM (30°-60°)	212.1	7.6	B0/220		
BH (60°-80°)	99.3	3.6	B0/110		G0/110
BVH (80°-90°)	8.0	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-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	474.4	474.4	474.4	474.4	474.4	474.4	474.4	474.4	474.4	474.4	474.4
2.5°	477.3	478.2	478.8	479.6	479.2	477.9	479.0	479.0	476.7	474.2	471.9
5°	477.9	479.0	478.8	478.6	476.9	474.8	474.8	473.6	469.6	465.6	461.9
7.5°	476.7	476.5	476.3	475.7	473.8	471.5	471.1	468.6	463.4	457.9	452.5
10°	471.1	470.9	471.5	472.9	472.5	470.4	470.4	468.1	462.1	455.4	448.3
12.5°	466.5	466.5	469.0	472.9	474.4	473.6	473.8	472.1	465.2	457.3	449.0
15°	467.1	467.3	472.7	479.2	481.9	481.3	481.5	479.6	471.9	464.0	452.7
17.5°	471.3	472.3	481.7	490.7	494.2	493.4	491.9	488.8	480.0	471.1	457.3
20°	480.0	481.7	493.8	505.1	509.2	507.3	504.8	498.6	489.0	479.2	462.3
22.5°	497.3	498.4	511.7	522.8	526.1	523.8	518.8	509.9	498.8	488.6	468.4
25°	521.7	523.0	535.7	545.9	545.1	542.4	535.5	524.4	511.3	500.5	477.1
27.5°	550.7	552.8	565.3	573.5	568.0	564.1	556.4	543.0	528.2	518.4	490.5
30°	582.4	583.3	593.9	602.0	593.7	588.3	578.9	564.5	551.1	543.8	510.5
32.5°	613.1	613.9	623.1	627.7	618.9	615.0	606.8	591.6	582.2	578.2	540.3
35°	645.4	645.2	652.7	656.7	647.7	646.0	637.7	626.0	624.3	629.5	583.9
37.5°	677.7	675.8	679.8	685.0	680.0	681.7	676.3	672.3	678.8	692.3	641.9
40°	703.6	703.6	707.7	714.2	715.9	723.2	720.0	725.3	746.1	778.4	713.6
42.5°	726.5	726.7	735.5	745.5	757.6	768.8	771.3	784.9	828.1	878.7	803.7
45°	750.5	750.7	762.6	777.2	802.8	824.3	829.3	859.8	921.5	983.2	901.5
47.5°	778.2	775.9	792.4	816.8	853.3	884.2	897.1	940.3	1018.2	1094.1	993.6
50°	809.5	804.7	823.1	865.2	910.2	952.6	974.2	1023.7	1122.1	1196.5	1080.4
52.5°	844.7	842.0	861.2	912.5	981.3	1030.1	1059.5	1124.4	1223.0	1298.5	1149.2
55°	888.5	882.1	909.8	975.1	1064.7	1126.9	1161.7	1224.1	1333.3	1391.1	1201.7
57.5°	936.5	929.4	966.5	1053.3	1173.2	1241.4	1285.0	1336.3	1437.2	1462.0	1232.6
60°	988.2	985.9	1029.9	1145.0	1302.5	1381.7	1413.2	1459.7	1527.5	1503.1	1224.9
62.5°	1035.6	1034.7	1098.7	1244.5	1439.5	1526.6	1551.7	1564.0	1592.5	1500.4	1163.6
65°	1085.4	1092.5	1179.0	1359.8	1596.5	1682.0	1692.4	1661.1	1614.4	1429.3	1038.1
67.5°	1091.6	1105.4	1229.5	1467.8	1745.4	1826.1	1817.7	1698.0	1549.8	1231.4	813.7
70°	976.3	1000.3	1149.0	1484.3	1850.3	1909.7	1849.4	1618.6	1315.2	892.1	511.7
72.5°	815.8	836.4	967.8	1265.8	1714.9	1790.6	1709.1	1370.0	929.4	511.7	260.7
75°	635.0	659.0	780.1	1006.1	1283.9	1314.1	1273.3	955.5	510.9	211.0	118.4
77.5°	387.4	404.8	499.0	681.7	898.3	853.1	723.0	535.7	224.2	101.1	73.2
80°	171.4	182.0	245.9	366.2	519.0	490.7	386.8	228.8	122.6	64.2	51.1
82.5°	92.0	98.8	121.2	144.9	227.9	238.3	193.3	131.8	65.9	36.7	29.2
85°	40.5	44.4	55.1	52.5	74.9	73.6	74.2	90.5	31.5	16.9	19.0
87.5°	0.0	0.0	0.0	0.0	0.2	0.2	2.3	12.1	3.1	5.0	4.4
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°	474.4	474.4	474.4	474.4	474.4	474.4	474.4	474.4	474.4	474.4	474.4
2.5°	469.4	465.6	464.6	463.4	461.1	457.1	454.2	450.8	449.4	447.7	447.9
5°	457.7	453.1	448.8	443.1	436.0	428.1	422.7	416.4	413.1	410.0	410.8
7.5°	447.7	440.6	431.7	419.8	407.0	392.9	381.4	372.4	366.4	362.2	364.3
10°	441.5	433.1	417.5	398.1	376.6	354.9	338.4	323.0	313.4	305.9	305.5
12.5°	440.2	429.4	406.6	378.5	347.4	318.4	294.2	273.4	260.7	251.3	254.8
15°	441.5	427.7	397.2	360.3	321.1	281.9	251.9	227.9	212.7	204.1	203.5
17.5°	442.9	426.0	386.6	340.7	293.6	248.8	214.0	188.5	172.9	164.3	164.5
20°	444.2	423.5	374.1	319.3	265.7	217.9	181.8	157.6	143.7	137.4	138.5
22.5°	446.3	421.0	360.8	296.3	237.1	188.1	156.4	136.8	128.5	124.3	124.5
25°	450.2	419.6	347.0	271.3	208.9	164.3	138.9	125.7	120.5	118.0	117.8
27.5°	458.3	420.8	332.6	247.1	183.5	146.2	127.6	119.1	115.5	113.9	113.6
30°	471.9	425.8	320.1	222.5	161.6	132.0	119.9	114.7	112.6	111.1	110.9
32.5°	492.5	435.2	306.5	199.6	143.9	121.6	113.9	111.1	109.7	108.9	108.9
35°	523.8	452.3	293.2	179.5	130.1	113.4	109.1	108.0	106.8	106.3	106.8
37.5°	568.9	479.6	281.1	162.0	120.3	107.2	103.8	104.3	103.2	103.8	104.5
40°	626.0	516.1	270.9	147.6	113.0	102.6	99.3	100.7	100.1	100.7	101.8
42.5°	698.4	561.4	263.2	136.4	107.8	98.8	95.7	97.2	96.8	97.6	98.6
45°	779.1	621.0	259.6	128.5	104.1	96.1	92.8	93.8	93.4	94.0	95.1
47.5°	856.4	675.2	262.7	123.9	100.9	93.8	90.3	90.7	90.5	90.3	90.9
50°	923.2	718.4	271.7	122.4	98.8	91.5	88.2	88.4	87.8	86.5	87.0
52.5°	977.6	753.0	277.1	122.4	97.8	89.0	85.9	86.1	84.9	83.2	83.4
55°	1013.4	767.0	272.8	122.2	97.4	87.0	83.6	83.8	82.6	80.5	80.7
57.5°	1023.7	753.4	254.4	119.9	97.0	85.3	81.3	81.7	80.9	78.6	78.6
60°	995.1	703.8	220.8	114.7	95.9	84.2	79.7	80.3	79.9	77.6	77.6
62.5°	920.2	615.6	180.8	106.8	93.0	83.0	78.2	79.4	80.5	79.2	79.0
65°	780.1	493.2	147.0	98.0	89.3	80.9	76.1	79.2	81.5	83.2	83.2
67.5°	585.3	353.0	119.9	88.8	83.6	76.7	73.4	76.3	78.0	79.0	79.7
70°	356.8	207.7	94.5	78.2	75.5	70.5	68.0	65.1	62.8	62.4	62.6
72.5°	174.5	118.9	76.7	66.5	64.4	59.8	54.2	53.0	51.9	51.3	51.1
75°	96.1	82.8	63.4	55.3	51.5	45.9	44.6	42.5	42.1	41.3	41.5
77.5°	68.0	65.3	52.3	44.8	39.2	36.3	36.9	35.4	35.4	34.8	34.6
80°	51.1	51.3	40.2	32.7	29.0	27.9	28.6	28.6	28.2	27.9	27.7
82.5°	32.3	36.5	27.1	21.1	20.6	20.9	20.6	20.4	20.9	20.2	20.0
85°	22.3	26.3	16.5	12.5	12.5	12.3	12.7	12.5	12.9	12.3	12.3
87.5°	5.0	11.7	6.0	3.8	4.0	3.8	4.0	4.2	4.6	4.8	4.8
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)