

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: P629092

Luminaire Tested: GWS-SA1A-830-U-T2R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P629092  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1A-830-U-T2R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: (16) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

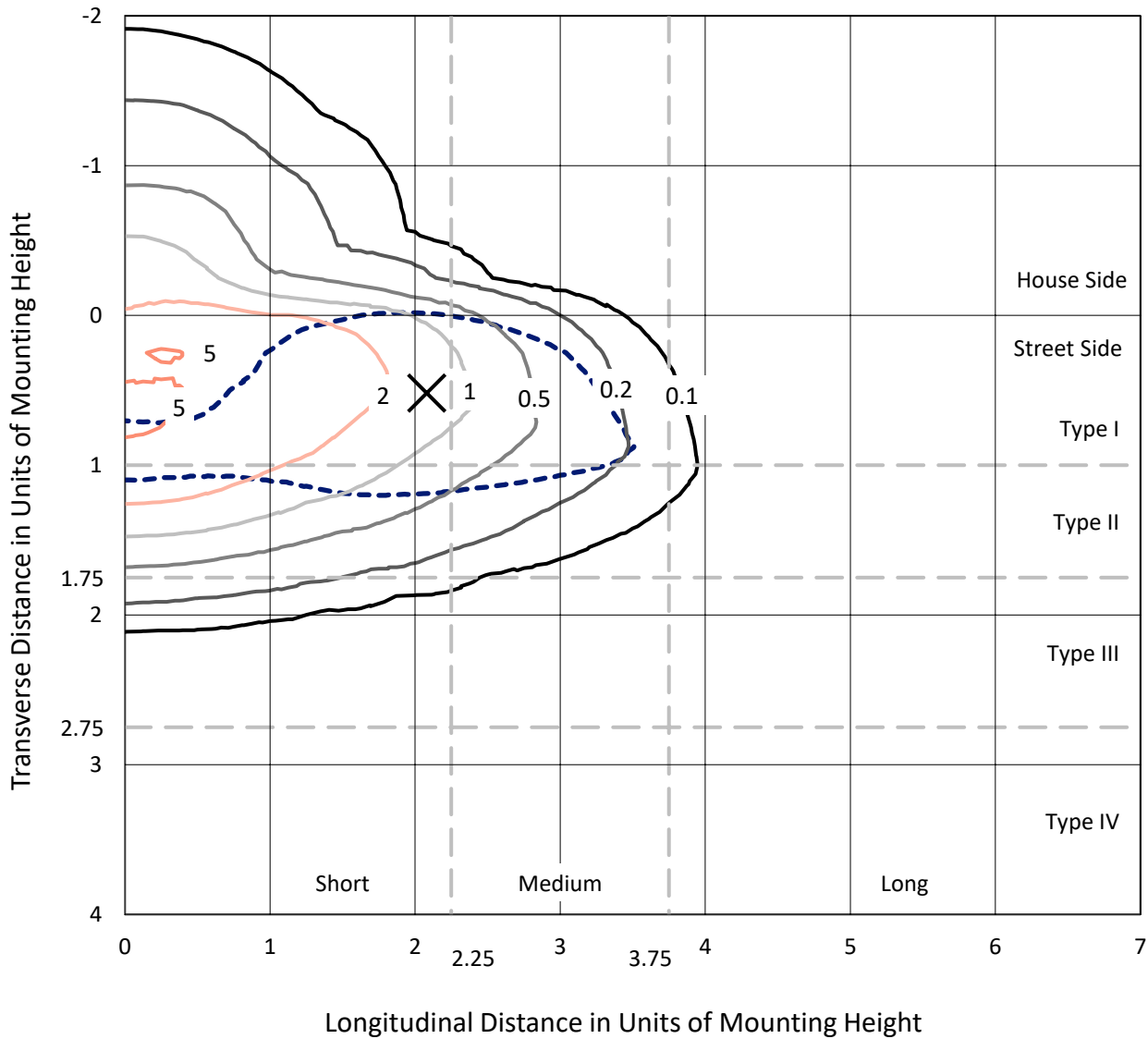
Lumens per Lamp: N/A  
Luminaire Lumens: 2303.5 lumens  
Efficiency: N/A  
Efficacy: 116.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): 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

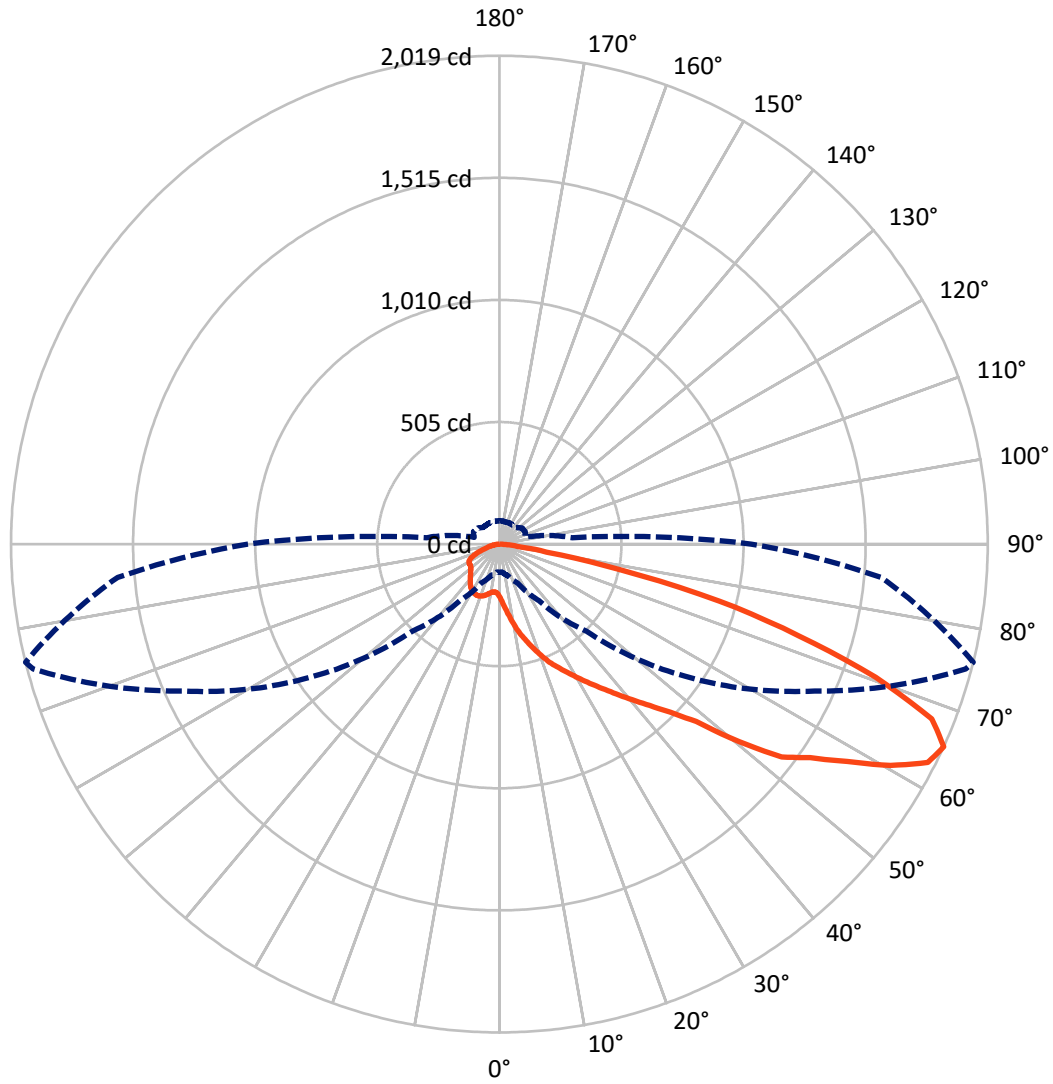
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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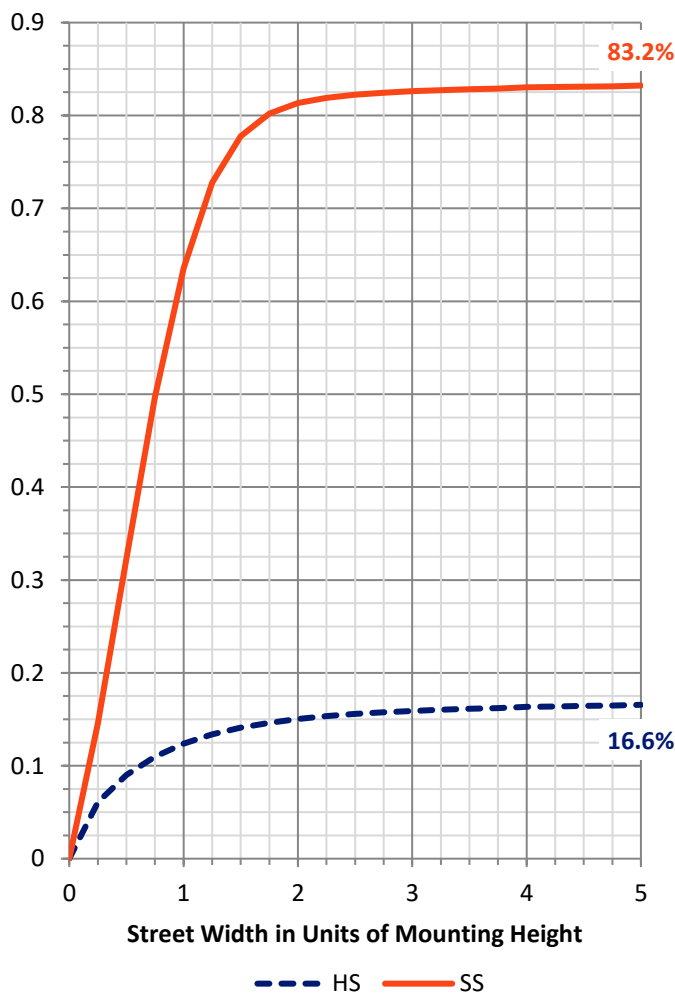
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	385.0	0.0	385.0
	% Fixture	16.7	0.0	16.7
<b>Street Side</b>	Lumens	1918.5	0.0	1918.5
	% Fixture	83.3	0.0	83.3
<b>Total</b>	Lumens	2303.5	0.0	2303.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.9	1.1
10°-20°	98.7	4.3
20°-30°	192.4	8.4
30°-40°	321.7	14.0
40°-50°	460.7	20.0
50°-60°	545.3	23.7
60°-70°	453.5	19.7
70°-80°	185.6	8.1
80°-90°	19.8	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°	2303.5	100.0
0°-180°	2303.5	100.0

**Coefficient of Utilization**



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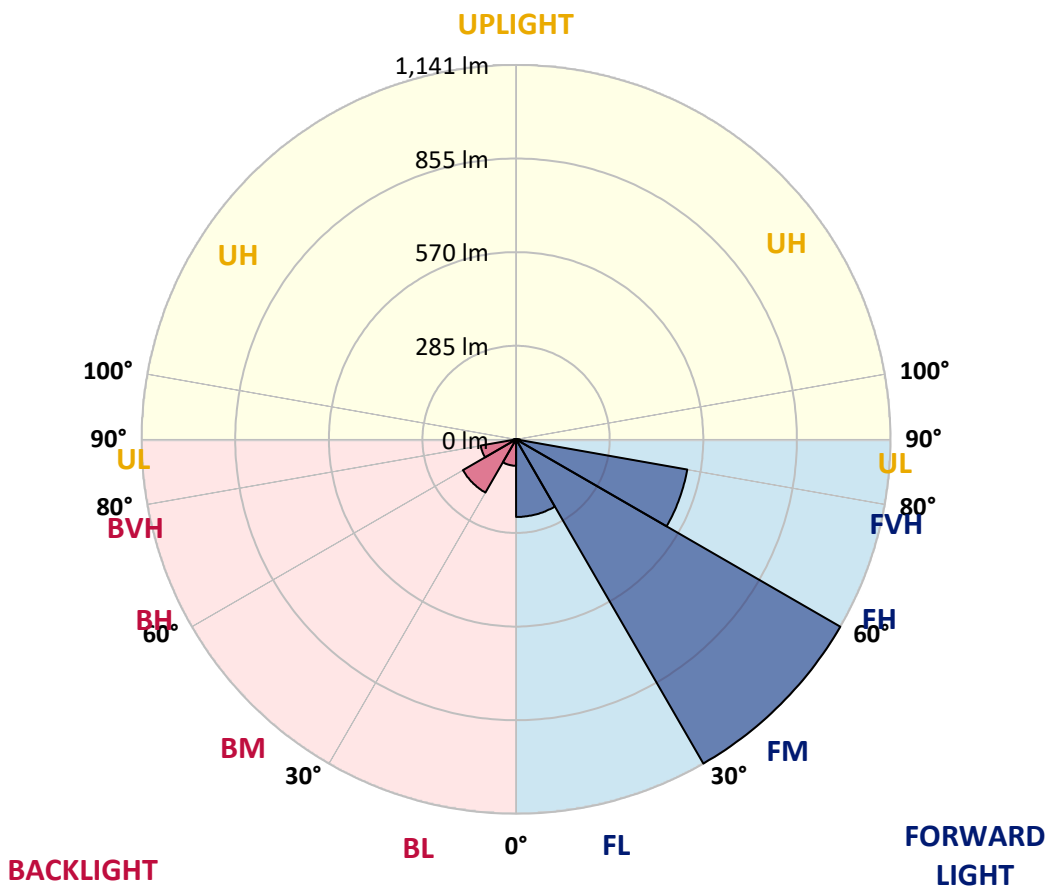
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	236.4	10.3			
FM (30°-60°)	1140.6	49.5			
FH (60°-80°)	529.6	23.0			G0/660
FVH (80°-90°)	11.8	0.5			G1/100
BL (0°-30°)	80.5	3.5	B0/110		
BM (30°-60°)	187.1	8.1	B0/220		
BH (60°-80°)	109.4	4.7	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: B0-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	218.1	218.1	218.1	218.1	218.1	218.1	218.1	218.1	218.1	218.1	218.1
2.5°	305.7	306.9	303.2	301.9	293.1	281.3	271.4	256.5	242.7	240.6	228.3
5°	388.3	383.5	379.3	376.5	364.4	350.9	330.0	302.0	272.7	269.1	242.6
7.5°	437.4	436.6	431.4	429.8	420.4	407.0	385.4	350.6	308.0	302.2	261.9
10°	476.8	476.3	473.7	475.1	466.5	453.4	432.5	396.6	346.7	340.9	283.4
12.5°	511.1	511.9	511.4	516.7	512.4	502.2	480.5	441.0	385.4	379.1	309.6
15°	536.2	536.8	539.3	550.9	553.3	551.2	529.2	484.5	423.6	414.6	336.7
17.5°	543.3	544.6	550.4	569.2	582.3	591.1	574.7	528.9	461.2	451.3	364.2
20°	552.9	554.3	560.1	579.7	599.0	618.9	616.0	573.9	499.1	491.0	392.1
22.5°	597.1	595.9	593.3	602.7	616.5	641.3	648.6	617.2	538.3	530.5	422.8
25°	682.3	680.1	663.6	655.0	650.5	665.6	678.5	656.5	576.5	564.8	451.5
27.5°	776.2	775.0	754.0	733.6	705.7	699.3	706.9	690.8	613.6	601.8	476.4
30°	865.1	861.7	839.7	814.1	776.8	749.0	737.8	724.5	654.2	641.9	505.6
32.5°	944.6	940.2	914.3	886.0	846.9	814.1	780.7	760.3	700.2	686.0	535.4
35°	1009.9	1005.5	978.9	948.8	905.9	881.6	835.9	799.2	747.0	732.6	570.5
37.5°	1060.4	1056.3	1028.6	999.0	961.6	942.3	902.7	842.9	801.0	785.9	607.8
40°	1088.7	1085.8	1063.6	1040.1	1008.7	992.0	974.2	898.1	861.4	846.3	651.6
42.5°	1097.3	1095.4	1079.8	1067.7	1046.5	1033.8	1044.0	963.1	925.8	912.7	701.0
45°	1075.8	1075.8	1071.2	1077.4	1078.4	1078.2	1114.0	1036.4	1005.0	990.6	770.7
47.5°	1020.7	1024.3	1030.9	1061.2	1093.1	1119.8	1195.8	1134.2	1106.9	1095.0	869.3
50°	920.0	929.7	952.4	1011.5	1079.3	1147.3	1273.2	1278.8	1304.9	1284.0	1014.4
52.5°	772.5	771.0	828.8	913.0	1016.5	1148.5	1315.8	1406.4	1476.6	1462.2	1122.2
55°	613.9	611.5	665.4	781.5	920.1	1105.1	1341.3	1464.9	1571.8	1558.8	1219.2
57.5°	470.1	467.0	515.0	619.7	784.1	1012.9	1336.5	1534.5	1702.8	1696.2	1351.1
60°	323.6	319.8	364.7	456.3	623.1	872.0	1282.7	1570.3	1856.2	1858.4	1492.1
62.5°	194.3	192.2	224.8	295.9	448.2	697.5	1156.9	1548.6	1978.3	1988.5	1582.8
65°	117.2	115.8	134.9	176.5	284.4	509.0	962.9	1437.7	1995.9	2019.4	1584.9
67.5°	85.3	85.5	91.0	107.5	165.8	328.7	722.6	1238.8	1903.9	1928.2	1485.0
70°	74.2	74.5	77.4	81.1	100.2	188.2	469.8	978.0	1632.0	1650.8	1245.5
72.5°	65.9	65.9	67.9	69.8	78.4	114.7	251.7	683.5	1288.1	1293.1	950.6
75°	58.0	57.5	58.5	59.4	68.0	80.2	122.4	476.3	951.4	939.7	614.4
77.5°	46.2	45.7	45.8	46.8	54.6	57.3	62.0	297.5	536.2	506.1	271.4
80°	32.9	32.5	34.3	36.8	40.3	35.1	38.9	144.0	212.6	197.9	105.3
82.5°	19.6	20.2	23.0	24.9	27.9	22.0	25.1	48.1	75.3	73.4	42.8
85°	2.8	2.9	8.3	9.6	12.0	8.6	13.3	21.7	30.1	32.2	15.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.9	8.6	8.7	3.7
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°	218.1	218.1	218.1	218.1	218.1	218.1	218.1	218.1	218.1	218.1	218.1
2.5°	222.0	214.4	203.6	194.5	186.9	180.7	175.5	171.7	170.5	168.9	168.9
5°	230.1	216.4	196.9	183.2	175.2	170.5	167.3	165.7	164.9	163.9	163.4
7.5°	241.3	222.0	195.8	181.9	175.7	172.8	170.7	169.7	169.1	168.1	168.1
10°	256.7	230.4	199.3	186.4	181.5	178.6	176.2	174.6	173.1	171.7	171.3
12.5°	273.4	241.5	205.8	192.5	187.4	183.8	180.4	178.0	176.2	174.4	173.9
15°	291.8	252.8	212.8	198.5	192.1	187.2	183.2	179.4	177.0	174.4	174.1
17.5°	310.0	264.3	218.6	202.6	194.3	188.3	182.5	177.6	174.6	171.7	170.8
20°	331.7	275.8	222.7	203.7	193.8	185.9	178.9	172.8	169.4	166.0	165.5
22.5°	351.6	286.5	224.6	202.1	190.1	180.7	172.6	166.0	162.3	158.9	158.2
25°	370.8	295.9	223.8	198.2	184.4	173.6	165.2	158.5	155.0	151.4	150.4
27.5°	389.5	302.2	220.6	192.2	177.3	165.7	157.6	151.6	148.5	145.4	144.1
30°	407.8	308.0	215.5	184.4	168.3	157.4	150.8	146.6	143.5	140.2	139.3
32.5°	426.2	312.2	207.9	175.4	159.0	150.1	146.1	143.0	139.8	136.5	135.5
35°	444.8	314.0	198.7	165.0	151.3	145.4	144.0	140.4	136.0	132.1	130.8
37.5°	467.0	315.6	187.2	154.8	144.5	143.2	142.8	137.5	132.3	127.0	125.5
40°	493.8	317.7	175.4	145.6	138.9	142.3	141.0	133.8	123.4	118.2	116.6
42.5°	526.5	321.6	163.1	137.2	134.9	139.3	137.8	124.7	117.7	114.8	114.0
45°	574.6	335.9	150.8	130.5	131.8	134.9	132.6	119.3	116.6	114.7	113.7
47.5°	660.2	357.7	140.1	125.5	129.4	131.0	122.3	117.9	115.8	113.2	112.1
50°	749.3	367.3	131.5	122.4	126.6	127.4	116.6	115.9	114.5	111.7	110.6
52.5°	809.5	366.0	126.3	121.3	124.4	121.3	114.0	113.8	112.9	109.6	108.3
55°	877.6	368.3	124.0	121.6	123.4	110.9	110.8	111.3	110.8	107.2	106.6
57.5°	969.4	375.2	122.9	122.8	122.8	105.9	107.7	108.3	107.4	105.7	105.3
60°	1057.6	375.7	120.8	124.0	122.3	102.8	104.1	104.8	103.6	103.3	103.2
62.5°	1090.8	352.4	116.1	123.1	120.3	99.4	100.4	100.7	99.6	100.4	100.2
65°	1041.4	302.8	108.3	118.4	114.3	96.4	95.7	96.5	94.6	96.7	96.8
67.5°	924.7	240.6	96.5	109.5	105.9	93.0	91.7	91.7	88.4	91.7	91.5
70°	745.6	170.0	79.2	95.2	96.7	88.9	88.3	84.5	79.4	84.2	83.7
72.5°	565.2	122.1	62.3	75.3	83.2	83.2	83.4	77.1	71.1	73.4	71.4
75°	358.0	86.0	49.9	57.7	65.3	73.0	76.8	65.1	59.8	58.8	57.8
77.5°	161.3	56.5	38.9	44.2	46.3	57.7	70.1	56.0	48.7	46.6	46.0
80°	67.5	35.1	27.7	31.3	28.5	48.4	61.9	43.6	35.8	32.9	30.8
82.5°	29.6	20.9	17.7	16.8	17.8	36.0	46.2	29.0	22.3	30.3	30.6
85°	12.5	11.0	9.1	8.3	7.3	13.8	21.7	11.3	13.9	7.9	6.5
87.5°	2.9	3.2	2.4	1.6	1.0	0.2	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)