

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: P628982

Luminaire Tested: GWS-SA1A-760-U-T2R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628982  
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-760-U-T2R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: (16) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2925.5 lumens  
Efficiency: N/A  
Efficacy: 148.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - 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

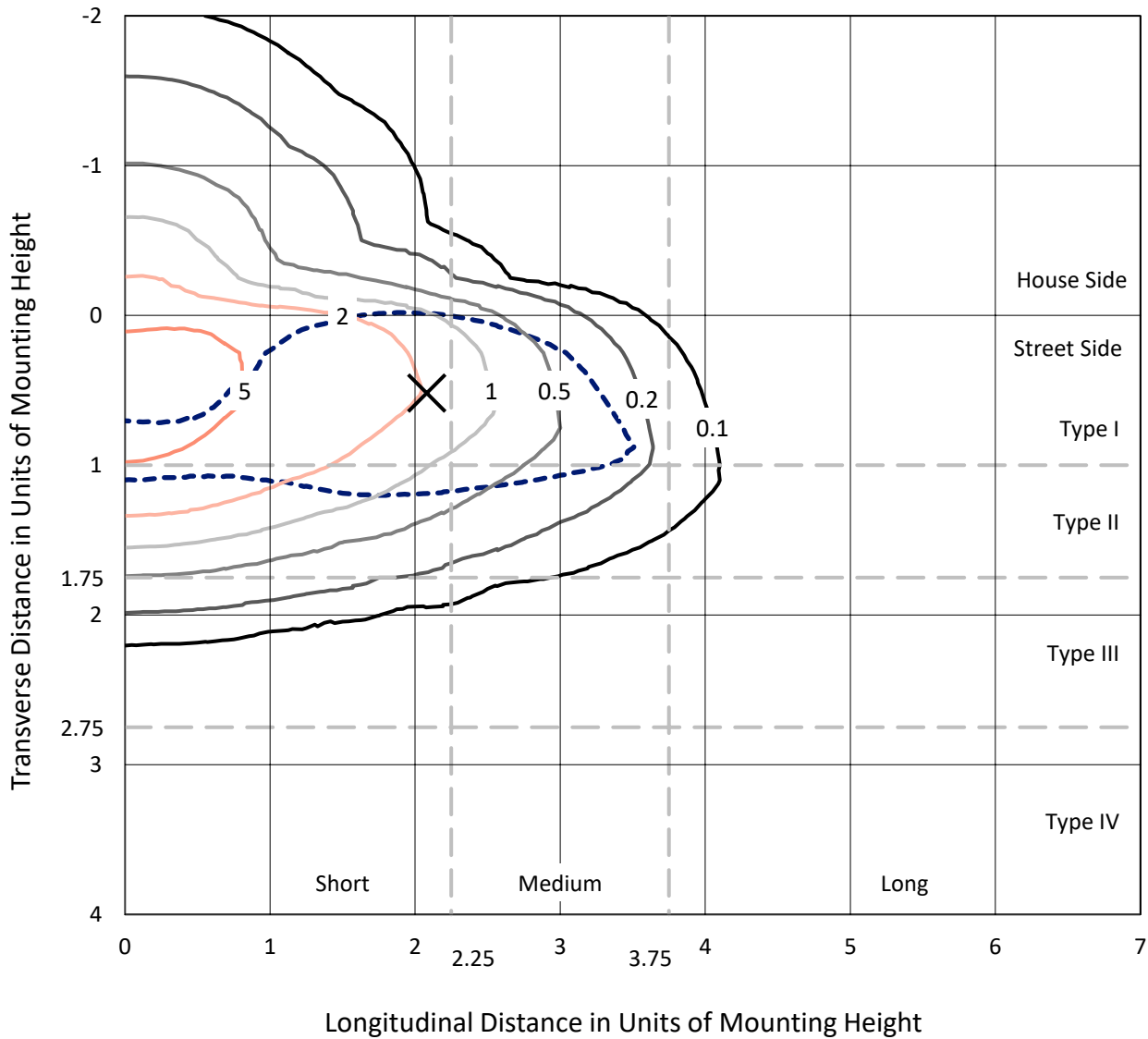


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### Iso-Footcandle Lines of Horizontal Illumination

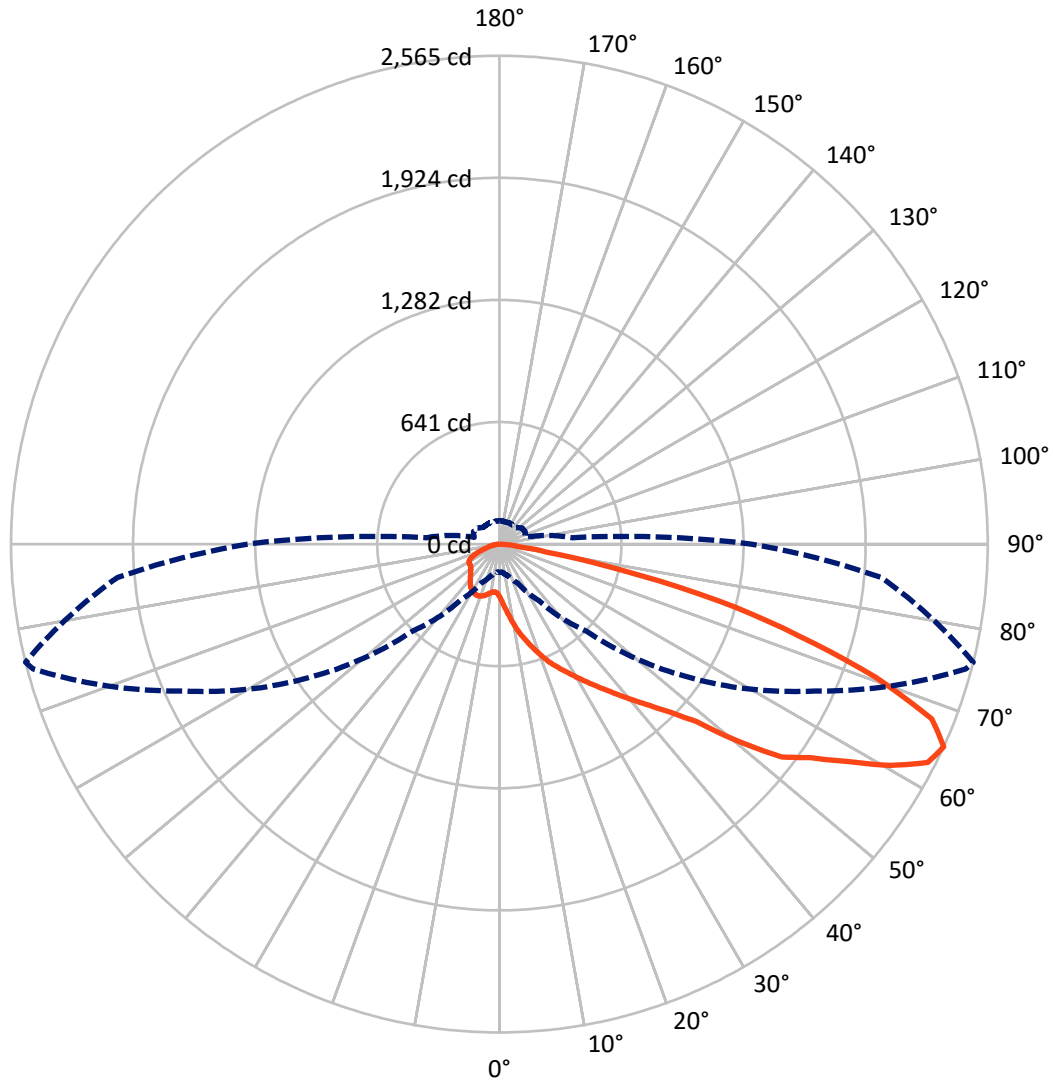
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.2 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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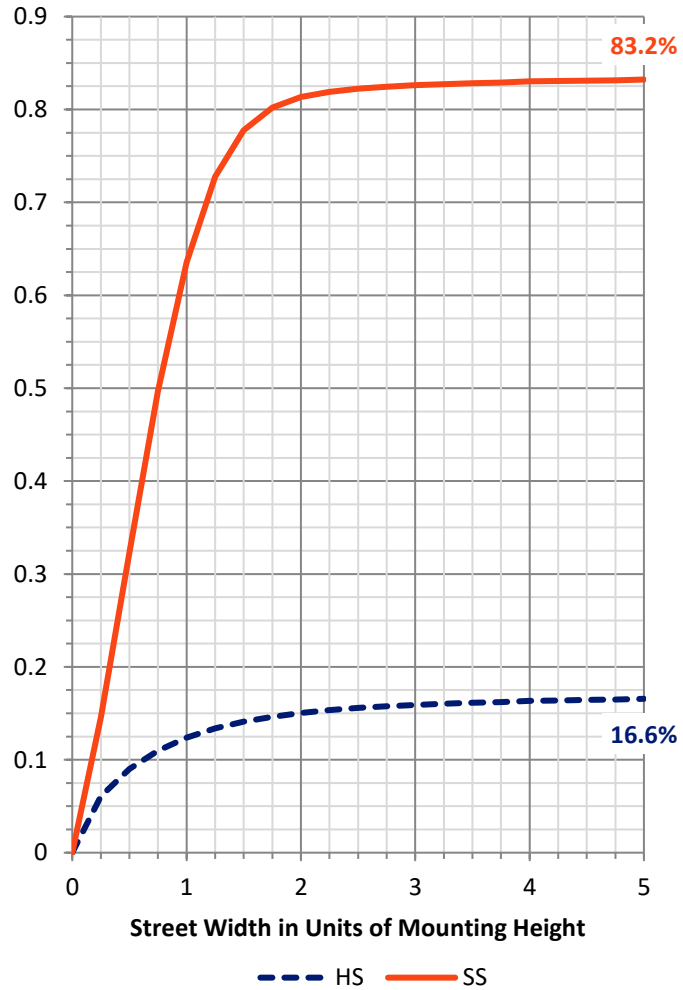
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	489.0	0.0	489.0
	% Fixture	16.7	0.0	16.7
<b>Street Side</b>	Lumens	2436.5	0.0	2436.5
	% Fixture	83.3	0.0	83.3
<b>Total</b>	Lumens	2925.5	0.0	2925.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.9	1.1
10°-20°	125.4	4.3
20°-30°	244.3	8.4
30°-40°	408.6	14.0
40°-50°	585.0	20.0
50°-60°	692.6	23.7
60°-70°	575.9	19.7
70°-80°	235.7	8.1
80°-90°	25.1	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°	2925.5	100.0
0°-180°	2925.5	100.0

**Coefficient of Utilization**



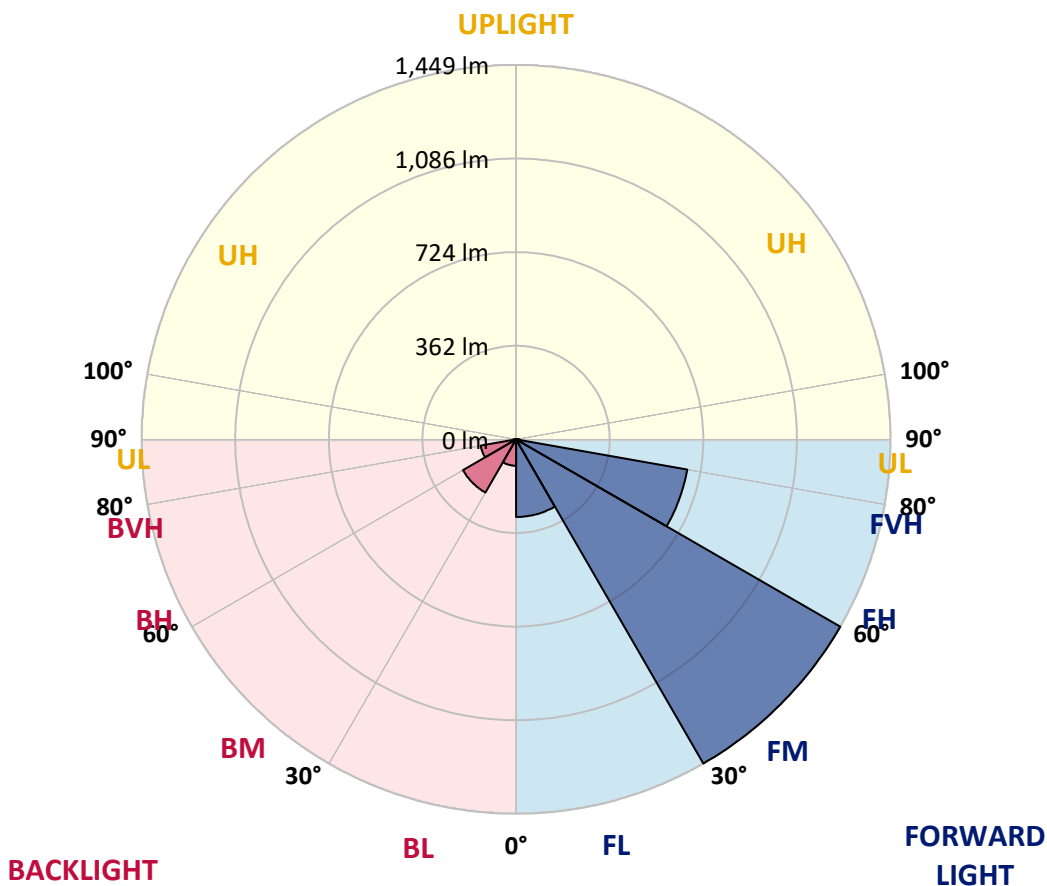
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	300.3	10.3			
FM (30°-60°)	1448.6	49.5			
FH (60°-80°)	672.6	23.0			G1/1800
FVH (80°-90°)	15.0	0.5			G1/100
BL (0°-30°)	102.3	3.5	B0/110		
BM (30°-60°)	237.6	8.1	B1/1000		
BH (60°-80°)	138.9	4.7	B1/500		G1/500
BVH (80°-90°)	10.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	277.0	277.0	277.0	277.0	277.0	277.0	277.0	277.0	277.0	277.0	277.0
2.5°	388.3	389.7	385.0	383.4	372.3	357.2	344.7	325.8	308.3	305.6	290.0
5°	493.2	487.0	481.7	478.2	462.8	445.7	419.2	383.6	346.3	341.8	308.1
7.5°	555.5	554.5	547.9	545.8	533.9	516.8	489.5	445.3	391.2	383.8	332.6
10°	605.5	604.9	601.6	603.4	592.5	575.9	549.3	503.7	440.3	432.9	359.9
12.5°	649.1	650.1	649.5	656.3	650.7	637.8	610.2	560.0	489.5	481.5	393.2
15°	681.0	681.8	684.9	699.7	702.8	700.1	672.1	615.4	538.0	526.5	427.6
17.5°	690.0	691.7	699.1	722.9	739.6	750.7	729.9	671.7	585.7	573.2	462.5
20°	702.1	704.0	711.4	736.3	760.8	786.1	782.4	728.9	633.9	623.6	497.9
22.5°	758.3	756.9	753.6	765.5	783.0	814.4	823.7	783.8	683.6	673.8	537.0
25°	866.5	863.8	842.8	831.9	826.2	845.3	861.7	833.8	732.2	717.4	573.4
27.5°	985.8	984.3	957.6	931.7	896.3	888.1	897.7	877.4	779.3	764.3	605.1
30°	1098.7	1094.4	1066.4	1033.9	986.6	951.2	937.0	920.2	830.9	815.3	642.1
32.5°	1199.7	1194.1	1161.2	1125.2	1075.6	1033.9	991.5	965.6	889.3	871.2	679.9
35°	1282.5	1277.0	1243.3	1205.0	1150.5	1119.7	1061.7	1015.0	948.7	930.4	724.6
37.5°	1346.7	1341.6	1306.4	1268.8	1221.3	1196.8	1146.4	1070.5	1017.2	998.1	771.9
40°	1382.7	1379.0	1350.8	1321.0	1281.1	1259.9	1237.3	1140.6	1093.9	1074.8	827.6
42.5°	1393.6	1391.1	1371.4	1356.0	1329.0	1313.0	1325.9	1223.1	1175.8	1159.1	890.3
45°	1366.2	1366.2	1360.5	1368.3	1369.5	1369.3	1414.8	1316.3	1276.4	1258.1	978.8
47.5°	1296.3	1300.8	1309.3	1347.7	1388.3	1422.2	1518.6	1440.5	1405.7	1390.7	1104.0
50°	1168.4	1180.7	1209.5	1284.6	1370.8	1457.2	1617.0	1624.2	1657.3	1630.7	1288.3
52.5°	981.0	979.2	1052.6	1159.6	1291.0	1458.6	1671.0	1786.2	1875.3	1857.0	1425.3
55°	779.7	776.6	845.1	992.6	1168.6	1403.5	1703.5	1860.5	1996.2	1979.8	1548.5
57.5°	597.1	593.1	654.0	787.1	995.8	1286.4	1697.4	1948.9	2162.6	2154.2	1715.9
60°	410.9	406.2	463.2	579.6	791.4	1107.5	1629.1	1994.4	2357.4	2360.2	1895.0
62.5°	246.8	244.1	285.5	375.8	569.3	885.8	1469.3	1966.8	2512.4	2525.4	2010.2
65°	148.9	147.1	171.3	224.2	361.2	646.4	1222.9	1825.9	2534.9	2564.7	2012.9
67.5°	108.4	108.6	115.6	136.6	210.6	417.5	917.7	1573.4	2418.0	2448.9	1886.0
70°	94.2	94.6	98.3	103.0	127.3	239.0	596.6	1242.0	2072.7	2096.6	1581.8
72.5°	83.7	83.7	86.2	88.6	99.5	145.6	319.6	868.1	1635.9	1642.3	1207.3
75°	73.6	73.0	74.2	75.5	86.4	101.8	155.5	604.9	1208.3	1193.5	780.3
77.5°	58.6	58.0	58.2	59.4	69.3	72.8	78.8	377.8	681.0	642.7	344.7
80°	41.8	41.3	43.6	46.7	51.2	44.6	49.4	182.8	270.0	251.3	133.7
82.5°	24.9	25.7	29.2	31.7	35.4	28.0	31.9	61.1	95.6	93.2	54.3
85°	3.5	3.7	10.5	12.1	15.2	10.9	16.9	27.6	38.3	40.9	19.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.9	10.9	11.1	4.7
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°	277.0	277.0	277.0	277.0	277.0	277.0	277.0	277.0	277.0	277.0	277.0
2.5°	282.0	272.3	258.5	247.0	237.3	229.5	222.9	218.0	216.6	214.5	214.5
5°	292.3	274.8	250.1	232.6	222.5	216.6	212.5	210.4	209.4	208.1	207.5
7.5°	306.4	282.0	248.7	231.0	223.1	219.4	216.8	215.5	214.7	213.5	213.5
10°	326.0	292.7	253.2	236.7	230.6	226.9	223.8	221.7	219.9	218.0	217.6
12.5°	347.2	306.7	261.4	244.5	238.0	233.4	229.1	226.0	223.8	221.5	220.9
15°	370.6	321.0	270.2	252.1	243.9	237.8	232.6	227.9	224.8	221.5	221.1
17.5°	393.6	335.6	277.7	257.3	246.8	239.2	231.8	225.6	221.7	218.0	217.0
20°	421.2	350.3	282.8	258.7	246.2	236.1	227.3	219.4	215.1	210.8	210.2
22.5°	446.5	363.8	285.3	256.7	241.5	229.5	219.2	210.8	206.1	201.8	200.9
25°	471.0	375.8	284.2	251.7	234.3	220.5	209.8	201.3	196.8	192.3	191.1
27.5°	494.6	383.8	280.1	244.1	225.2	210.4	200.1	192.5	188.6	184.7	183.0
30°	517.9	391.2	273.7	234.3	213.7	199.9	191.5	186.1	182.2	178.1	176.9
32.5°	541.3	396.5	264.1	222.7	202.0	190.7	185.5	181.6	177.5	173.4	172.1
35°	565.0	398.8	252.4	209.6	192.1	184.7	182.8	178.3	172.8	167.8	166.2
37.5°	593.1	400.8	237.8	196.6	183.5	181.8	181.4	174.6	168.0	161.2	159.4
40°	627.1	403.5	222.7	184.9	176.5	180.8	179.1	169.9	156.7	150.1	148.1
42.5°	668.6	408.5	207.1	174.2	171.3	176.9	175.0	158.4	149.5	145.8	144.8
45°	729.7	426.6	191.5	165.8	167.4	171.3	168.4	151.6	148.1	145.6	144.4
47.5°	838.5	454.3	177.9	159.4	164.3	166.4	155.3	149.7	147.1	143.8	142.3
50°	951.6	466.5	167.0	155.5	160.8	161.9	148.1	147.3	145.4	141.9	140.5
52.5°	1028.1	464.8	160.4	154.0	158.0	154.0	144.8	144.6	143.4	139.2	137.6
55°	1114.5	467.7	157.5	154.5	156.7	140.9	140.7	141.3	140.7	136.2	135.3
57.5°	1231.1	476.5	156.1	155.9	155.9	134.5	136.8	137.6	136.4	134.3	133.7
60°	1343.2	477.1	153.4	157.5	155.3	130.6	132.2	133.1	131.6	131.2	131.0
62.5°	1385.4	447.5	147.5	156.3	152.8	126.3	127.5	127.9	126.5	127.5	127.3
65°	1322.6	384.6	137.6	150.3	145.2	122.4	121.5	122.6	120.1	122.8	123.0
67.5°	1174.4	305.6	122.6	139.0	134.5	118.1	116.4	116.4	112.3	116.4	116.2
70°	946.9	216.0	100.6	120.9	122.8	112.9	112.1	107.4	100.8	106.9	106.3
72.5°	717.8	155.1	79.2	95.6	105.7	105.7	105.9	97.9	90.3	93.2	90.7
75°	454.7	109.2	63.3	73.2	82.9	92.8	97.5	82.7	75.9	74.7	73.4
77.5°	204.8	71.8	49.4	56.1	58.8	73.2	89.1	71.2	61.9	59.2	58.4
80°	85.8	44.6	35.2	39.7	36.2	61.5	78.6	55.3	45.5	41.8	39.1
82.5°	37.6	26.5	22.4	21.4	22.6	45.7	58.6	36.8	28.4	38.5	38.9
85°	15.8	14.0	11.5	10.5	9.3	17.5	27.6	14.4	17.7	10.1	8.2
87.5°	3.7	4.1	3.1	2.1	1.2	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)