

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: P631462

Luminaire Tested: GWS-SA1F-760-U-T3R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631462  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1F-760-U-T3R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (16) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

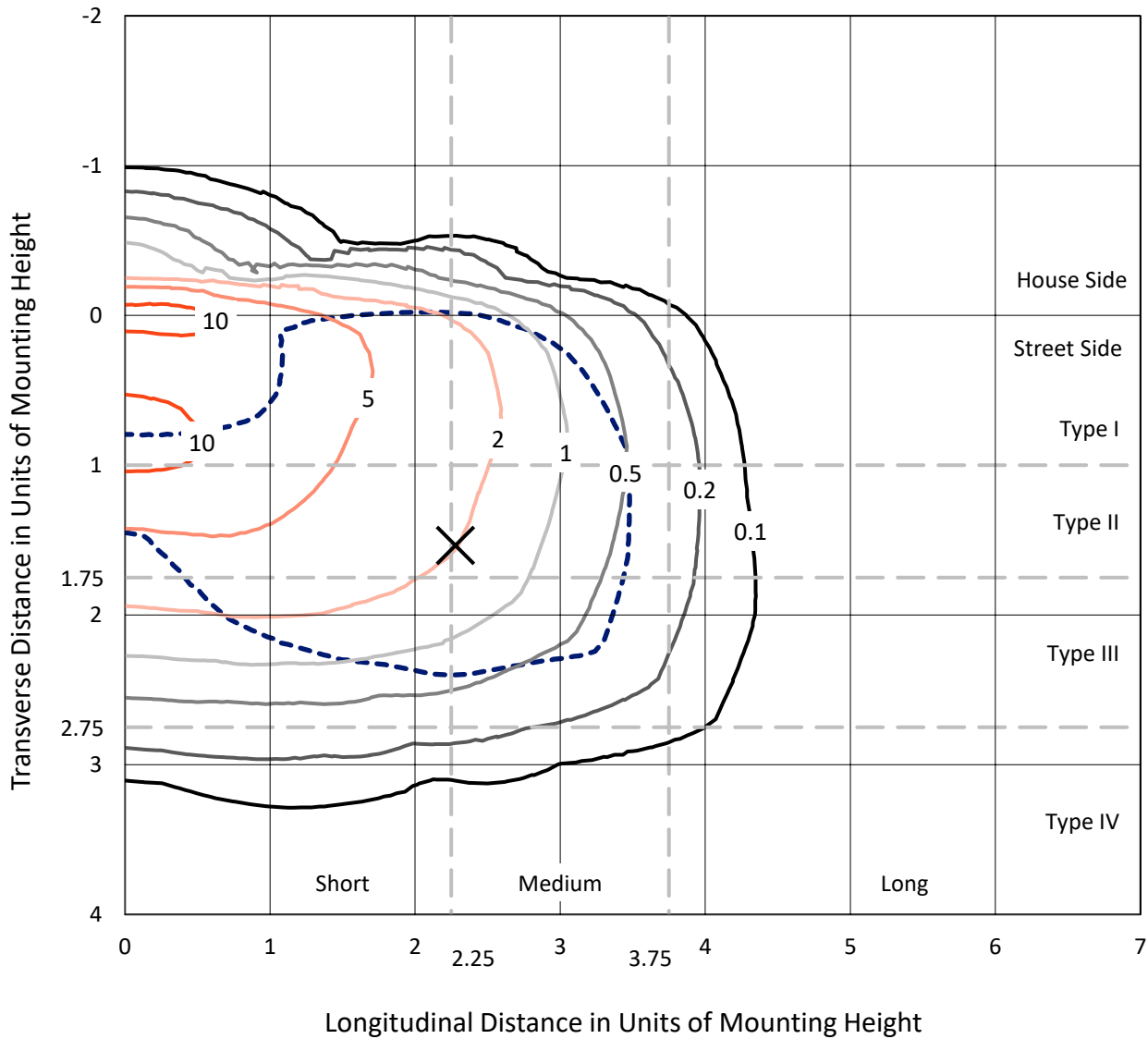
Lumens per Lamp: N/A  
Luminaire Lumens: 6653.9 lumens  
Efficiency: N/A  
Efficacy: 99.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

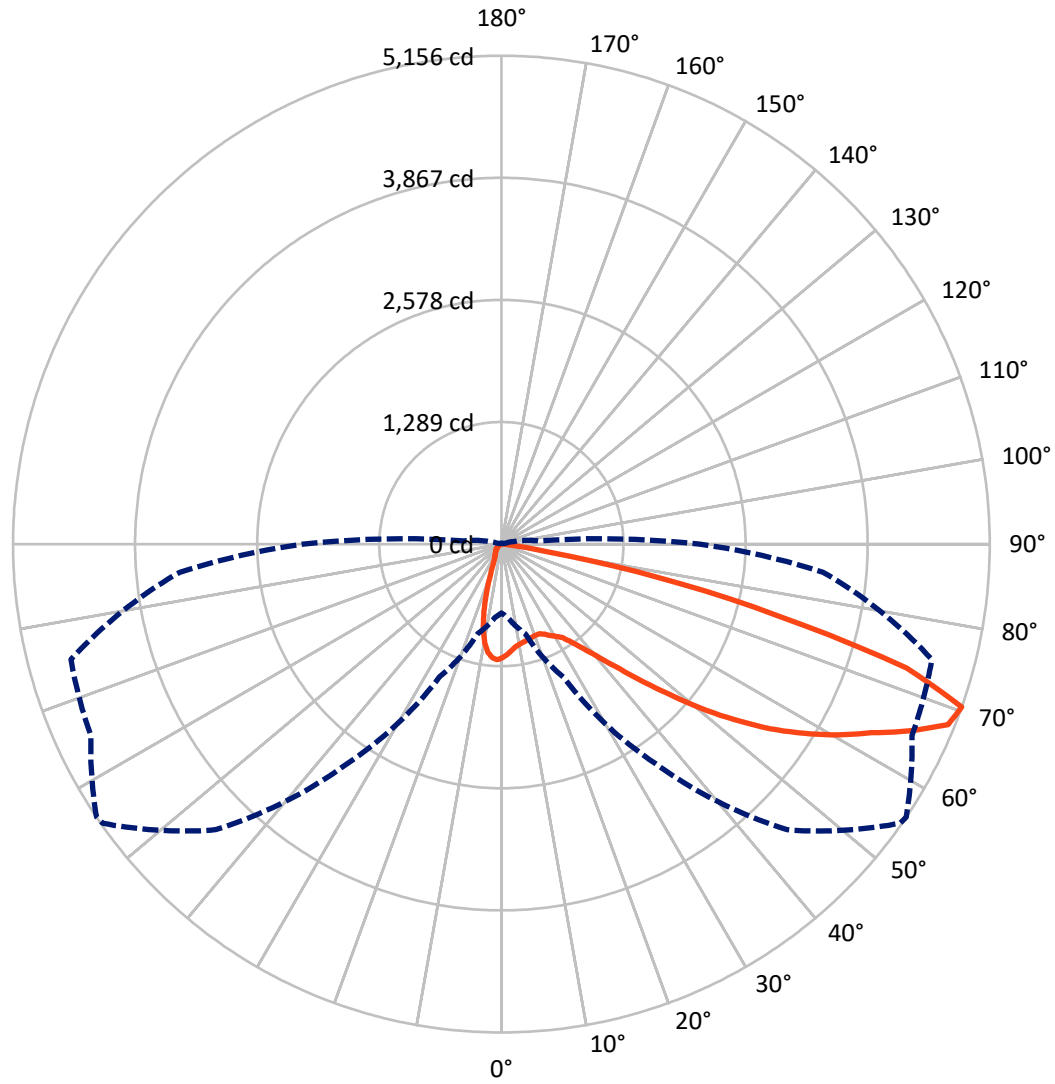
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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 CATALOG NUMBER: GWS-SA1F-760-U-T3R-W-HSS

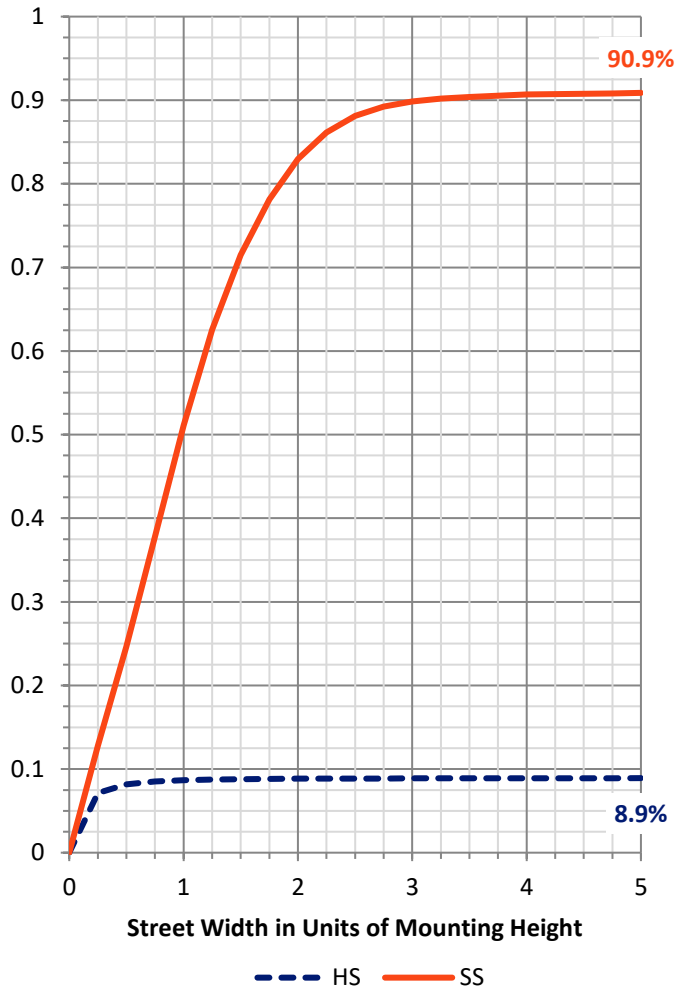
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	597.6	0.0	597.6
	% Fixture	9.0	0.0	9.0
<b>Street Side</b>	Lumens	6056.3	0.0	6056.3
	% Fixture	91.0	0.0	91.0
<b>Total</b>	Lumens	6653.9	0.0	6653.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.0	1.5
10°-20°	231.7	3.5
20°-30°	367.0	5.5
30°-40°	632.9	9.5
40°-50°	1068.7	16.1
50°-60°	1570.3	23.6
60°-70°	1861.6	28.0
70°-80°	793.9	11.9
80°-90°	24.9	0.4
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°	6653.9	100.0
0°-180°	6653.9	100.0

**Coefficient of Utilization**



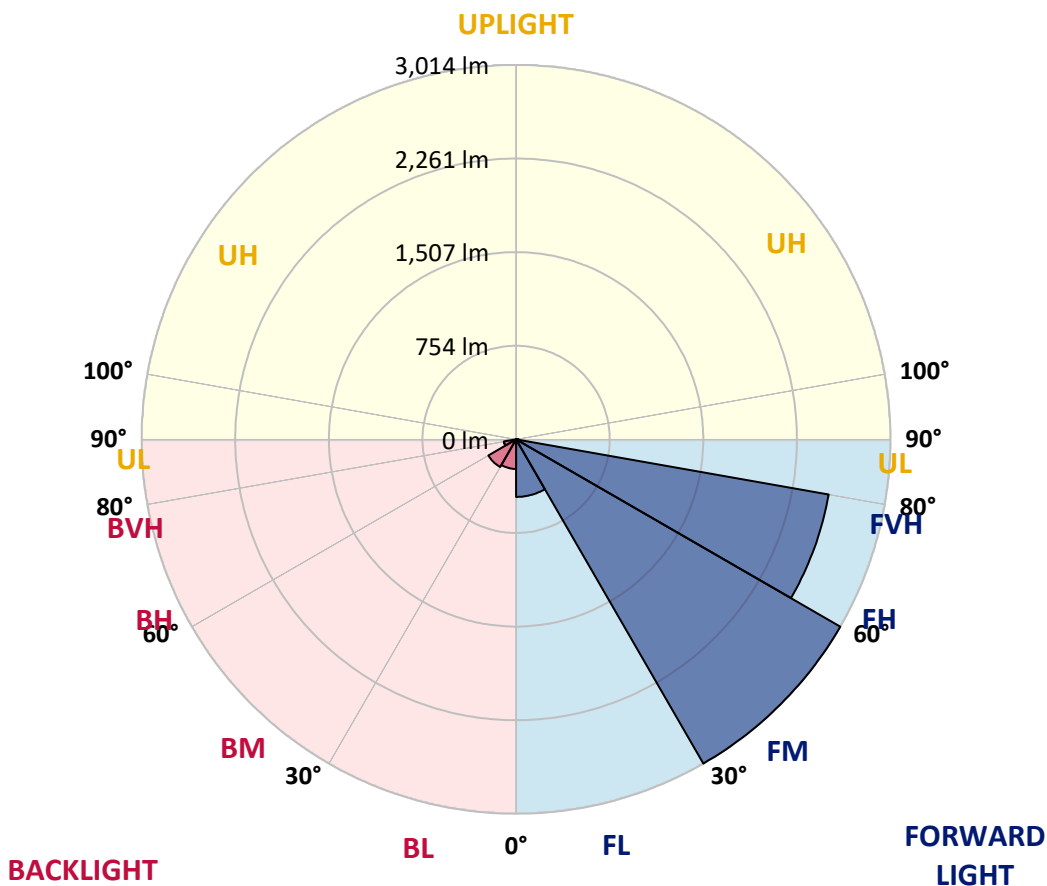
REPORT NUMBER: P631462

CATALOG NUMBER: GWS-SA1F-760-U-T3R-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	463.7	7.0			
FM (30°-60°)	3014.4	45.3			
FH (60°-80°)	2555.8	38.4			G2/5000
FVH (80°-90°)	22.4	0.3			G1/100
BL (0°-30°)	238.0	3.6	B1/500		
BM (30°-60°)	257.4	3.9	B1/1000		
BH (60°-80°)	99.7	1.5	B0/110		G0/110
BVH (80°-90°)	2.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type III Medium





REPORT NUMBER: P631462

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1199.8	1199.8	1199.8	1199.8	1199.8	1199.8	1199.8	1199.8	1199.8	1199.8	1199.8
2.5°	1116.9	1115.1	1116.3	1125.4	1142.5	1150.4	1163.8	1166.3	1177.2	1191.2	1196.7
5°	1044.4	1038.3	1041.3	1054.1	1073.6	1095.6	1120.6	1127.3	1154.7	1185.8	1208.9
7.5°	978.0	971.3	978.6	998.7	1026.1	1049.9	1087.0	1091.3	1135.2	1190.0	1232.1
10°	873.8	875.6	890.2	925.6	967.6	1017.0	1066.9	1073.0	1127.3	1204.0	1269.2
12.5°	794.0	789.7	805.5	845.7	904.9	976.8	1051.7	1059.6	1127.9	1225.4	1316.8
15°	756.8	755.6	762.3	791.5	848.8	933.5	1037.7	1048.0	1135.8	1244.9	1361.8
17.5°	758.0	756.2	755.6	772.6	815.3	901.2	1022.5	1035.9	1142.5	1266.2	1409.4
20°	811.0	802.5	787.3	779.3	804.9	880.5	1012.1	1027.3	1152.2	1288.7	1459.9
22.5°	921.9	925.0	884.1	841.5	829.3	882.9	1010.9	1028.5	1173.6	1324.1	1522.1
25°	1143.7	1138.8	1063.3	967.6	901.2	910.9	1032.2	1053.5	1215.6	1374.6	1580.6
27.5°	1421.6	1425.8	1322.2	1169.9	1031.0	968.8	1071.2	1092.5	1264.4	1406.3	1619.6
30°	1724.4	1720.1	1609.2	1440.4	1215.0	1065.1	1110.2	1129.1	1288.7	1423.4	1659.8
32.5°	2010.8	2001.0	1891.4	1714.6	1449.6	1216.8	1163.8	1174.8	1321.0	1460.6	1714.0
35°	2255.1	2254.5	2158.8	1970.6	1690.9	1406.9	1255.8	1265.0	1381.3	1519.7	1793.9
37.5°	2507.4	2498.9	2391.6	2219.8	1938.9	1615.3	1396.6	1392.9	1476.4	1606.8	1892.0
40°	2714.6	2709.1	2626.8	2461.7	2196.6	1845.7	1567.2	1556.2	1589.1	1727.4	2028.5
42.5°	2868.1	2868.7	2843.1	2742.6	2469.6	2111.9	1781.7	1764.6	1764.0	1909.6	2208.8
45°	2984.5	2992.4	3030.8	3015.6	2791.9	2422.1	2056.5	2038.8	2009.0	2146.1	2415.4
47.5°	3038.7	3049.1	3164.8	3225.8	3074.1	2729.8	2383.7	2346.5	2288.0	2460.5	2646.3
50°	3033.2	3051.5	3213.0	3398.2	3330.0	3041.8	2740.1	2722.5	2626.8	2793.2	2874.8
52.5°	2908.9	2947.9	3216.0	3503.0	3526.8	3329.4	3108.8	3075.9	3029.6	3140.5	3089.3
55°	2571.4	2618.9	3087.5	3536.5	3680.3	3580.4	3469.5	3442.7	3365.9	3468.3	3276.4
57.5°	2388.0	2428.8	2816.9	3520.1	3810.7	3812.6	3790.6	3768.7	3705.3	3792.5	3495.7
60°	2277.7	2318.5	2672.5	3459.8	3928.9	4057.5	4092.2	4089.8	3998.4	4161.1	3752.8
62.5°	2116.2	2172.3	2522.0	3303.2	4013.0	4298.8	4403.6	4387.2	4285.4	4545.0	4007.5
65°	1790.2	1838.9	2213.7	3044.8	3963.7	4498.7	4741.2	4749.7	4632.1	4906.3	4208.6
67.5°	1255.2	1291.2	1663.5	2502.5	3628.5	4564.5	5086.7	5086.1	4885.6	5091.5	4119.7
70°	727.5	776.9	982.8	1547.1	2823.0	4265.3	5138.5	5156.1	4782.6	4704.6	3409.2
72.5°	281.5	322.3	556.9	822.0	1472.1	3267.2	4420.1	4471.9	4002.7	3629.2	2372.7
75°	84.1	93.8	262.0	437.5	591.0	1578.2	2992.4	3007.0	2745.6	2263.7	1216.2
77.5°	62.8	69.5	114.6	221.2	207.2	478.3	1548.3	1690.9	1457.5	808.6	335.1
80°	42.7	50.6	81.6	107.9	76.8	127.3	435.1	477.7	444.8	181.6	84.1
82.5°	18.9	24.4	57.9	54.2	28.0	36.6	134.1	142.6	92.0	54.8	29.2
85°	1.8	2.4	21.9	23.8	10.4	8.5	28.0	28.0	20.1	18.9	12.2
87.5°	0.0	0.0	0.6	1.2	1.2	1.8	2.4	3.0	3.7	4.9	6.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P631462

CATALOG NUMBER: GWS-SA1F-760-U-T3R-W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1199.8	1199.8	1199.8	1199.8	1199.8	1199.8	1199.8	1199.8	1199.8	1199.8	1199.8
2.5°	1210.7	1203.4	1212.6	1219.9	1221.7	1208.3	1200.4	1188.8	1186.4	1187.0	1183.9
5°	1227.2	1223.5	1230.2	1222.3	1201.6	1162.6	1129.1	1091.9	1071.8	1060.2	1059.0
7.5°	1257.7	1255.8	1248.5	1212.6	1148.0	1061.4	978.0	896.3	845.7	827.5	824.4
10°	1302.7	1299.1	1269.2	1183.9	1046.2	879.9	739.7	622.7	551.4	530.7	505.1
12.5°	1354.5	1347.2	1282.0	1122.4	892.7	662.3	487.5	356.5	294.9	276.6	276.6
15°	1404.5	1388.7	1274.7	1020.6	703.8	430.8	272.4	206.0	187.1	182.2	182.2
17.5°	1455.7	1425.2	1246.1	881.7	486.2	254.7	181.6	168.8	166.3	167.0	167.6
20°	1503.8	1456.3	1195.5	714.7	310.1	177.9	162.7	159.6	158.4	159.6	159.0
22.5°	1556.2	1484.9	1118.7	532.6	201.7	160.3	154.8	152.3	151.1	152.9	152.9
25°	1608.0	1505.6	1017.0	358.3	160.3	149.3	146.2	143.8	142.6	143.2	143.2
27.5°	1634.8	1497.7	883.5	228.5	143.8	138.3	135.3	132.2	130.4	129.8	130.4
30°	1653.1	1473.4	720.2	162.7	130.4	123.7	120.6	118.2	113.3	110.3	111.5
32.5°	1681.7	1449.0	542.9	136.5	119.4	109.1	104.2	98.1	91.4	88.4	88.4
35°	1715.9	1415.5	380.8	123.1	107.9	96.9	87.7	77.4	69.5	67.0	67.0
37.5°	1761.0	1383.8	253.5	113.9	98.1	86.5	73.7	61.5	53.0	51.8	51.2
40°	1828.6	1357.0	178.5	107.2	89.6	75.6	60.3	47.5	41.4	39.6	39.6
42.5°	1916.3	1329.6	141.4	100.5	82.3	65.2	48.1	37.8	32.9	31.7	31.1
45°	2024.8	1297.3	123.1	94.4	74.9	54.2	38.4	31.7	28.0	26.8	26.8
47.5°	2142.4	1253.4	114.6	86.5	66.4	43.9	32.3	27.4	25.6	25.0	24.4
50°	2258.2	1194.3	107.2	79.2	56.7	36.0	28.0	25.0	23.8	23.2	23.2
52.5°	2359.3	1125.4	98.1	70.7	46.3	31.1	25.0	23.2	21.9	20.7	20.1
55°	2445.8	1050.5	86.5	60.9	37.8	27.4	23.2	21.3	20.1	18.9	18.3
57.5°	2557.3	1007.8	69.5	49.4	31.1	24.4	21.3	19.5	18.3	16.5	16.5
60°	2681.0	976.8	51.8	39.0	26.8	22.5	19.5	17.7	16.5	14.6	14.6
62.5°	2780.4	930.4	40.8	31.7	23.2	20.1	17.7	15.8	14.6	12.8	12.8
65°	2818.1	834.8	33.5	25.0	18.9	17.7	15.8	14.6	12.8	11.0	11.0
67.5°	2647.5	643.4	28.0	20.1	15.8	15.2	14.0	13.4	11.0	9.7	9.1
70°	2096.7	392.4	23.2	16.5	13.4	12.8	12.8	11.6	9.7	9.1	8.5
72.5°	1436.8	202.3	18.9	13.4	11.6	11.6	11.0	10.4	9.1	8.5	8.5
75°	746.4	67.6	14.6	10.4	9.1	9.7	9.7	9.1	8.5	8.5	7.9
77.5°	213.9	30.5	11.0	7.9	7.3	7.3	7.9	7.9	7.9	7.3	7.3
80°	55.4	17.7	7.9	6.1	6.1	6.1	6.1	6.7	7.3	6.7	6.7
82.5°	22.5	9.7	5.5	4.9	4.9	4.9	4.9	5.5	6.1	6.1	6.1
85°	14.0	4.9	4.3	4.3	4.3	3.7	3.7	4.3	4.3	4.9	4.9
87.5°	8.5	3.7	3.7	3.7	3.7	3.0	3.0	3.0	3.0	3.0	3.0
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)