

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: P628814

Luminaire Tested: GWS-SA1A-735-U-T2R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628814  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1A-735-U-T2R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (16) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

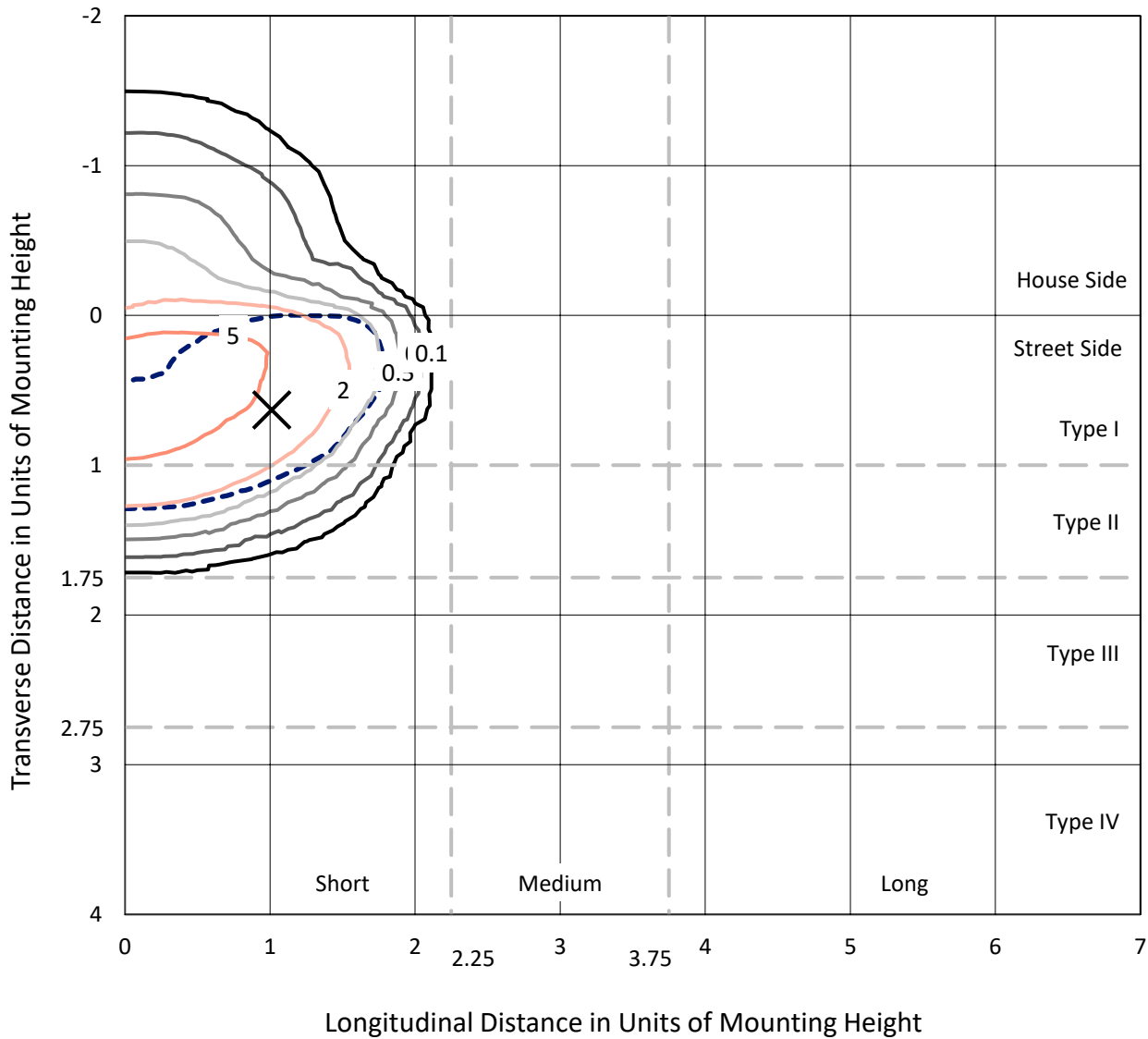
Lumens per Lamp: N/A  
Luminaire Lumens: 1880.2 lumens  
Efficiency: N/A  
Efficacy: 95.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G0  
  
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): 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



REPORT NUMBER: P628814  
 CATALOG NUMBER: GWS-SA1A-735-U-T2R-W-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

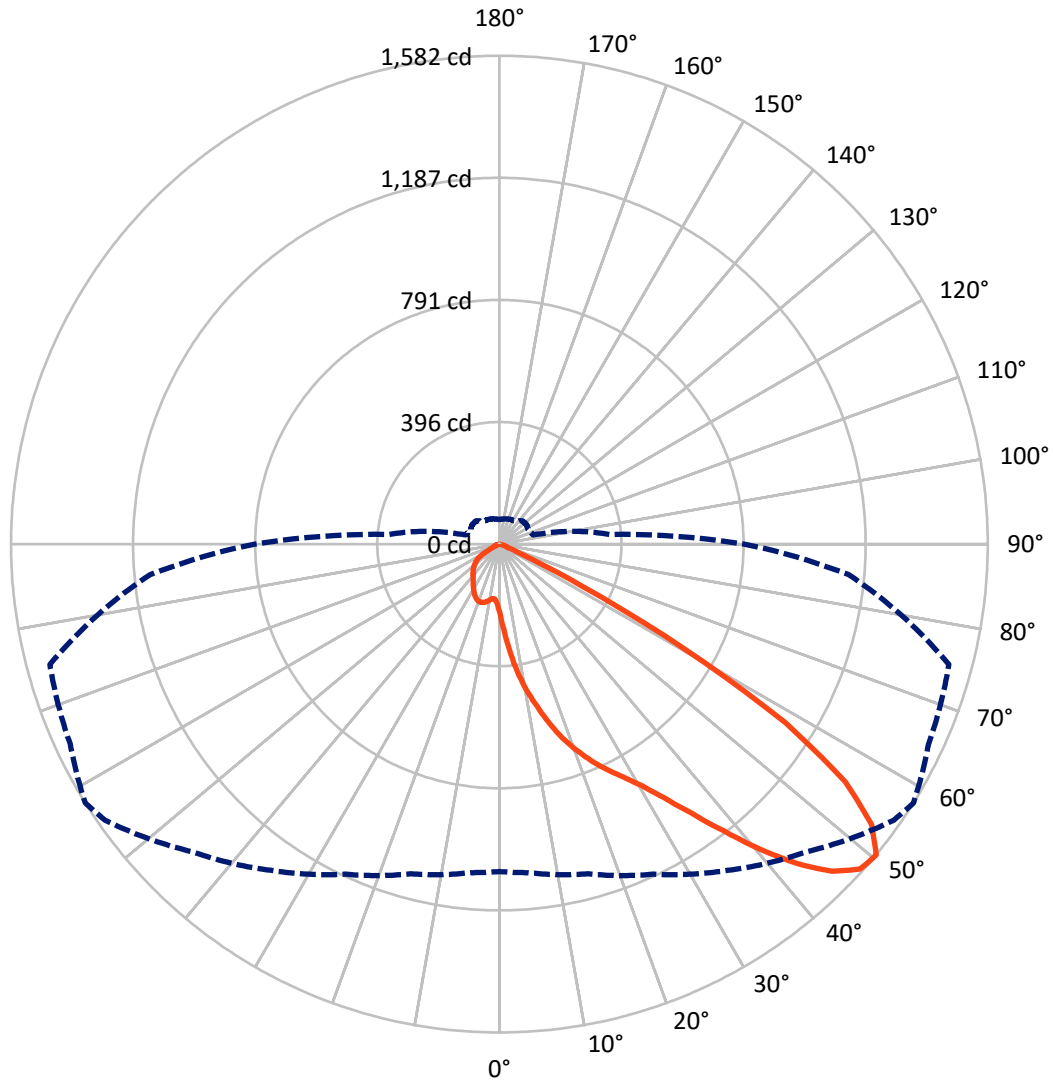
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.9 fc  
 Type II - Short - N/A

REPORT NUMBER: P628814  
CATALOG NUMBER: GWS-SA1A-735-U-T2R-W-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P628814

CATALOG NUMBER: GWS-SA1A-735-U-T2R-W-GRSBK

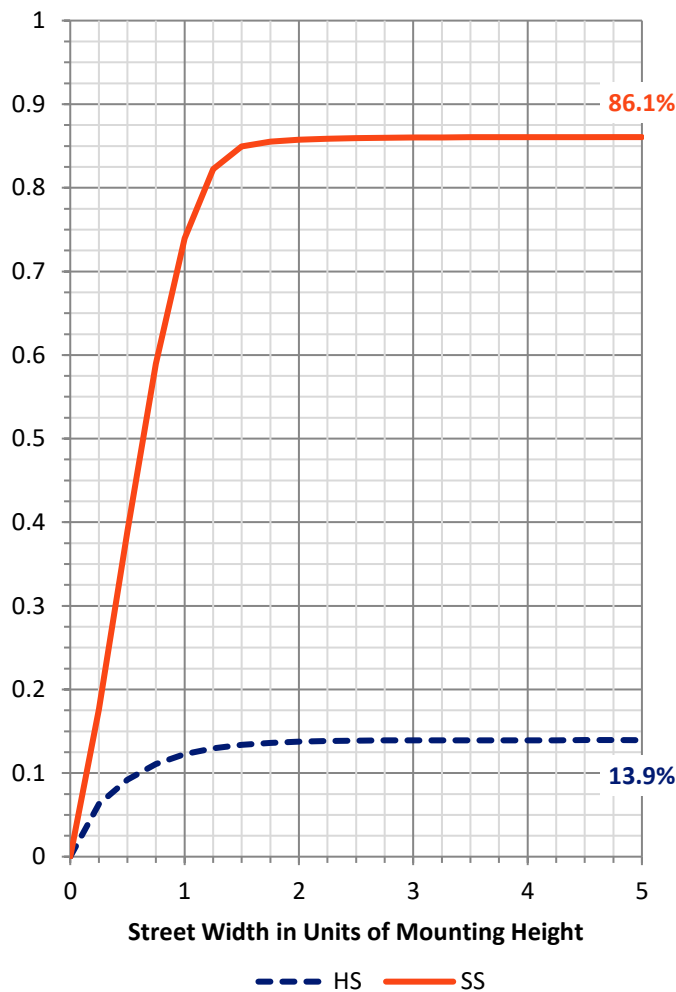
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	263.3	0.0	263.3
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	1616.8	0.0	1616.8
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	1880.2	0.0	1880.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	27.8	1.5
10°-20°	110.1	5.9
20°-30°	222.9	11.9
30°-40°	394.3	21.0
40°-50°	574.8	30.6
50°-60°	460.7	24.5
60°-70°	83.0	4.4
70°-80°	6.5	0.3
80°-90°	0.0	0.0
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°	1880.2	100.0
0°-180°	1880.2	100.0

**Coefficient of Utilization**



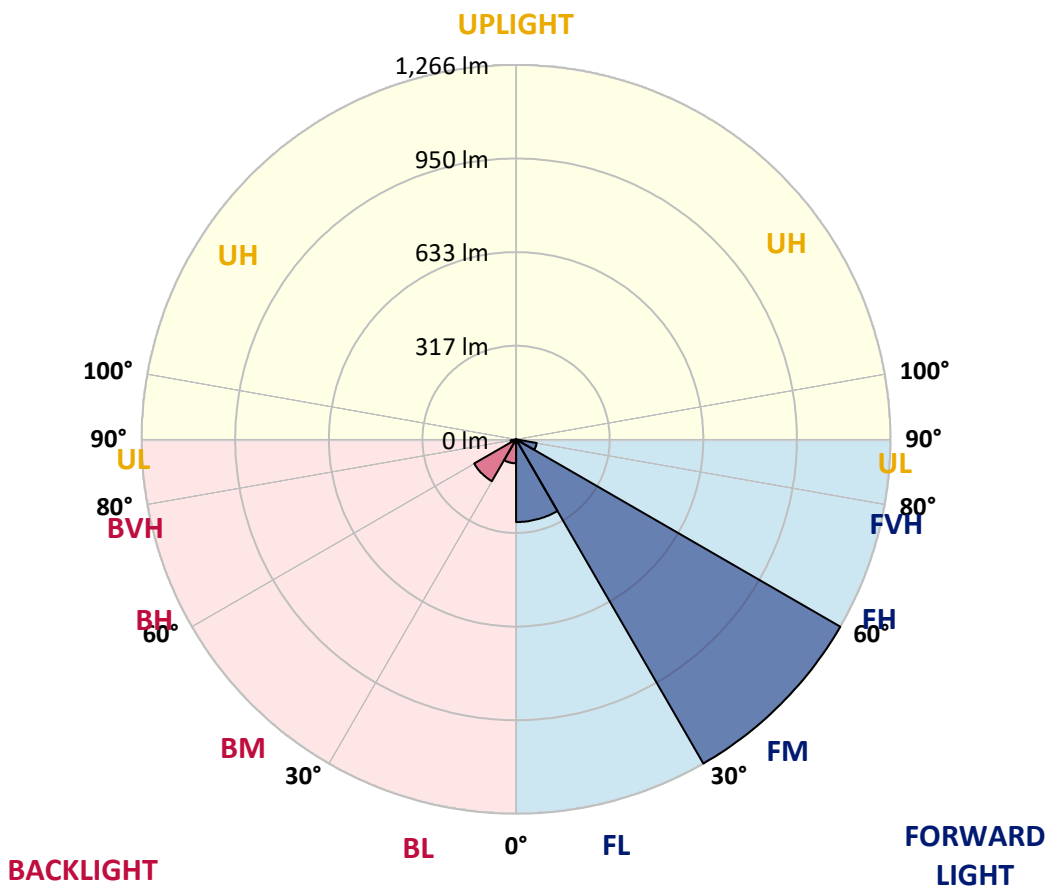
REPORT NUMBER: P628814

CATALOG NUMBER: GWS-SA1A-735-U-T2R-W-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	279.8	14.9			
FM (30°-60°)	1266.3	67.3			
FH (60°-80°)	70.8	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	81.1	4.3	B0/110		
BM (30°-60°)	163.6	8.7	B0/220		
BH (60°-80°)	18.7	1.0	B0/110		G0/110
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G0**  
 Type II Short





REPORT NUMBER: P628814

CATALOG NUMBER: GWS-SA1A-735-U-T2R-W-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	224.6	224.6	224.6	224.6	224.6	224.6	224.6	224.6	224.6	224.6	224.6
2.5°	332.4	327.1	324.1	321.7	311.0	294.2	283.1	277.3	267.6	251.3	237.3
5°	433.7	429.9	422.8	418.0	404.3	380.4	355.7	345.8	323.9	287.1	254.1
7.5°	500.8	498.0	495.4	489.0	476.1	454.4	427.1	416.8	383.0	330.7	276.7
10°	552.5	550.3	547.3	547.1	537.0	517.5	490.8	480.1	443.5	378.2	303.2
12.5°	598.0	596.1	595.5	601.2	594.7	580.3	551.3	538.0	499.2	426.7	332.6
15°	629.1	628.7	631.3	642.4	646.0	639.4	615.0	600.8	556.1	475.3	364.9
17.5°	643.4	644.6	649.6	668.7	684.8	690.4	671.7	659.7	612.6	524.6	399.5
20°	667.7	667.3	670.3	688.4	708.1	728.2	722.6	712.4	669.7	576.6	437.9
22.5°	736.3	730.5	724.0	726.8	733.9	757.4	767.9	762.6	728.7	630.1	477.5
25°	841.6	835.6	814.9	794.8	781.5	792.2	806.5	809.1	787.2	685.0	518.9
27.5°	953.4	948.0	924.7	894.5	856.5	838.0	848.7	853.9	844.7	750.4	563.0
30°	1058.2	1051.0	1025.4	988.0	944.0	915.6	903.6	907.2	912.6	827.8	614.6
32.5°	1149.1	1143.6	1113.1	1073.7	1031.2	1001.7	973.5	979.6	992.8	922.5	680.8
35°	1226.1	1223.3	1190.9	1151.7	1106.8	1091.8	1067.6	1068.8	1082.1	1036.9	761.4
37.5°	1293.0	1288.2	1258.9	1222.5	1186.9	1184.5	1177.8	1178.4	1185.3	1170.2	854.1
40°	1335.3	1330.8	1309.9	1287.4	1262.1	1262.5	1296.9	1299.5	1291.6	1301.1	952.0
42.5°	1351.1	1347.9	1336.7	1336.9	1334.2	1346.1	1410.7	1415.5	1387.3	1403.8	1035.7
45°	1323.6	1322.2	1323.0	1351.9	1383.3	1419.9	1503.7	1512.2	1472.4	1472.0	1101.0
47.5°	1234.7	1231.9	1255.4	1304.7	1377.3	1448.5	1560.0	1573.1	1531.9	1511.0	1142.0
50°	1060.6	1068.6	1105.8	1179.8	1290.2	1409.2	1559.4	1582.2	1534.1	1507.6	1135.2
52.5°	768.3	766.7	848.1	949.8	1084.1	1283.8	1476.6	1509.8	1480.4	1474.0	1119.9
55°	418.0	432.7	487.6	622.3	790.0	1046.3	1287.4	1359.8	1393.8	1461.7	1147.5
57.5°	153.6	160.0	194.4	289.7	418.2	650.6	983.4	1092.6	1197.5	1427.5	1142.8
60°	61.9	63.1	76.8	106.6	175.7	331.1	589.9	686.8	785.8	1092.8	877.0
62.5°	45.0	46.6	52.1	62.3	88.9	144.8	254.3	295.8	323.3	541.3	432.1
65°	36.4	37.6	42.0	46.6	58.7	77.8	82.0	79.0	78.6	139.9	99.1
67.5°	30.2	31.4	34.6	37.8	42.2	38.8	28.1	29.6	24.1	23.9	19.5
70°	22.1	23.5	26.7	30.2	25.3	10.5	16.3	24.1	18.3	15.3	14.9
72.5°	16.7	17.7	20.7	19.7	7.4	4.0	10.9	17.5	14.1	11.3	11.1
75°	12.5	13.1	10.5	3.2	0.8	1.0	4.0	7.2	7.8	6.4	6.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.6	0.8	1.0	1.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P628814

CATALOG NUMBER: GWS-SA1A-735-U-T2R-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	224.6	224.6	224.6	224.6	224.6	224.6	224.6	224.6	224.6	224.6	224.6
2.5°	229.2	220.8	208.7	198.6	191.0	183.6	177.9	172.3	172.1	169.3	168.7
5°	238.9	223.6	201.5	185.6	175.9	170.1	166.1	164.1	163.1	162.1	161.7
7.5°	252.7	230.8	200.3	183.4	175.3	171.5	168.7	167.5	166.9	166.1	165.9
10°	269.8	241.3	204.7	187.6	180.6	176.9	173.9	172.1	171.1	169.7	169.3
12.5°	290.3	254.1	211.7	194.6	187.2	182.4	178.3	175.7	174.3	172.5	172.1
15°	312.5	268.0	219.6	201.1	192.2	186.0	181.0	176.9	174.3	172.1	171.5
17.5°	335.4	282.1	226.6	205.5	194.6	187.2	180.0	174.5	171.3	168.5	167.7
20°	361.1	296.6	231.2	206.3	193.8	184.0	175.5	168.7	165.5	161.7	160.8
22.5°	388.1	310.0	233.2	204.5	189.4	177.9	168.9	161.9	157.2	153.2	152.0
25°	414.2	322.1	232.2	199.5	182.8	169.5	160.2	153.0	148.0	144.0	143.0
27.5°	441.9	332.2	228.6	192.0	173.7	160.2	151.4	145.2	140.5	136.1	135.1
30°	473.1	341.4	222.8	183.0	163.1	150.8	144.0	139.7	134.7	130.1	128.7
32.5°	510.7	349.6	214.3	172.1	153.6	142.6	138.7	135.5	129.7	124.9	123.9
35°	553.7	356.5	203.7	160.8	144.4	137.3	136.5	132.3	124.7	119.0	117.8
37.5°	603.6	363.1	191.0	149.8	137.5	134.9	135.1	127.9	118.6	111.8	111.0
40°	657.3	369.8	176.9	140.1	131.3	133.5	131.7	121.4	106.4	99.7	98.9
42.5°	713.2	377.0	162.7	131.1	126.1	128.1	125.5	108.6	97.7	94.3	93.9
45°	763.6	385.6	147.2	122.0	120.8	120.2	115.8	98.3	93.7	91.3	91.1
47.5°	800.0	384.2	130.7	113.4	115.2	113.2	99.7	93.5	89.7	86.5	85.7
50°	793.4	359.7	113.6	103.7	108.0	106.2	89.7	87.9	84.4	81.0	79.8
52.5°	776.5	326.3	98.7	93.5	100.1	95.9	82.8	81.0	78.0	73.6	72.2
55°	785.6	295.0	87.1	85.3	92.1	79.4	75.2	72.4	69.2	64.3	63.7
57.5°	756.4	240.7	70.0	71.2	81.4	67.8	65.9	61.5	56.1	52.9	52.5
60°	523.6	129.3	43.8	45.2	58.9	56.9	59.1	55.1	48.5	45.4	44.8
62.5°	240.5	51.9	23.9	22.9	31.0	38.6	50.7	50.3	42.0	37.2	36.8
65°	58.3	23.7	17.1	16.1	17.5	23.1	33.0	39.6	34.0	28.3	27.7
67.5°	18.9	19.3	15.7	14.7	15.5	17.3	19.7	21.9	21.7	19.9	19.5
70°	15.1	17.5	14.5	13.3	13.3	13.9	13.3	10.7	9.2	10.1	10.5
72.5°	11.3	13.3	11.5	10.3	9.9	9.7	8.2	6.0	4.2	3.8	3.6
75°	6.6	7.4	7.0	6.0	5.6	5.0	4.0	2.6	1.4	1.0	0.6
77.5°	1.2	1.4	1.6	1.2	1.0	0.8	0.6	0.2	0.0	0.0	0.0
80°	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)