

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: P629224

Luminaire Tested: GWS-SA1B-730-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629224
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1B-730-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2458 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

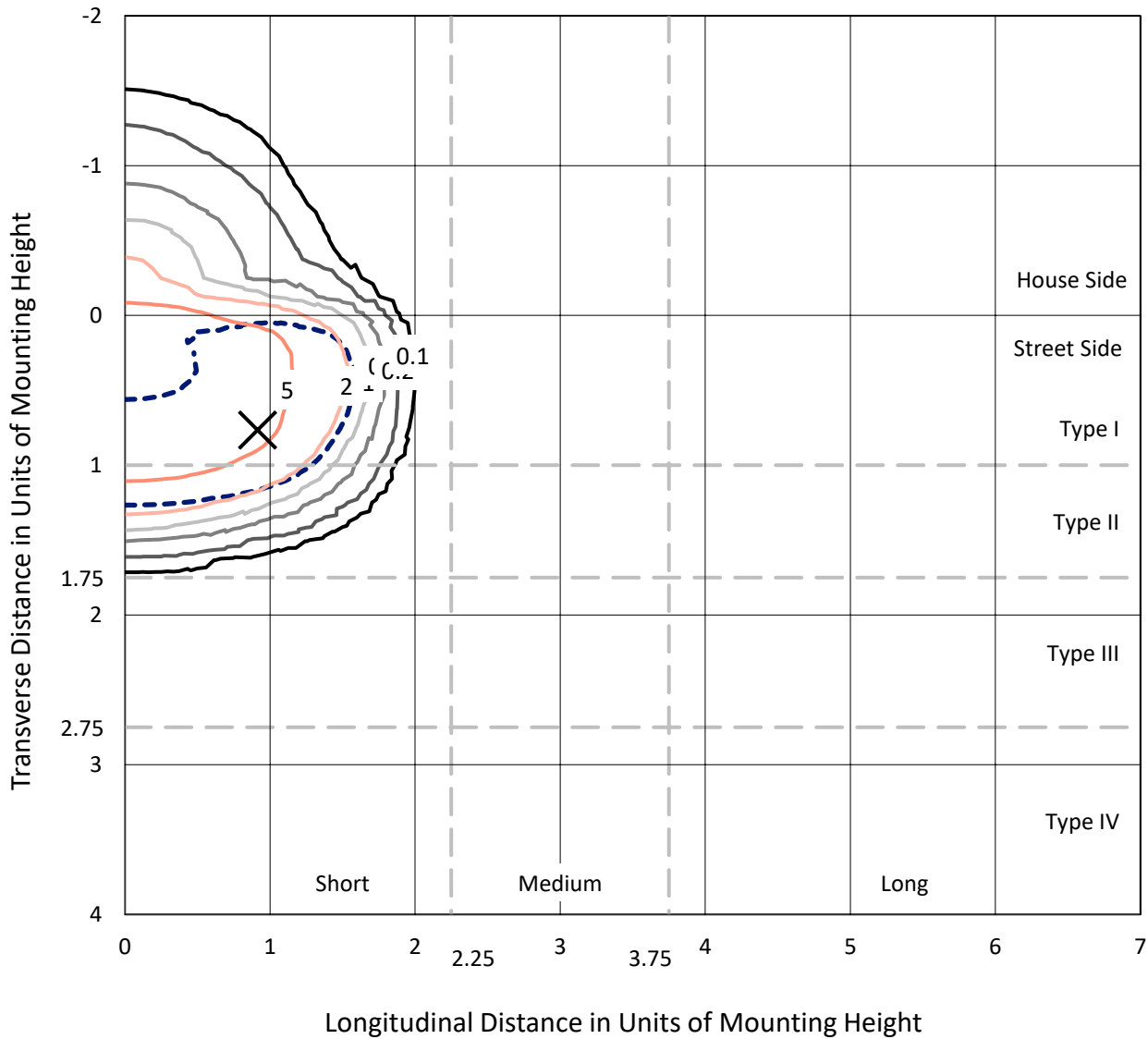
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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 CATALOG NUMBER: GWS-SA1B-730-U-AFL-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

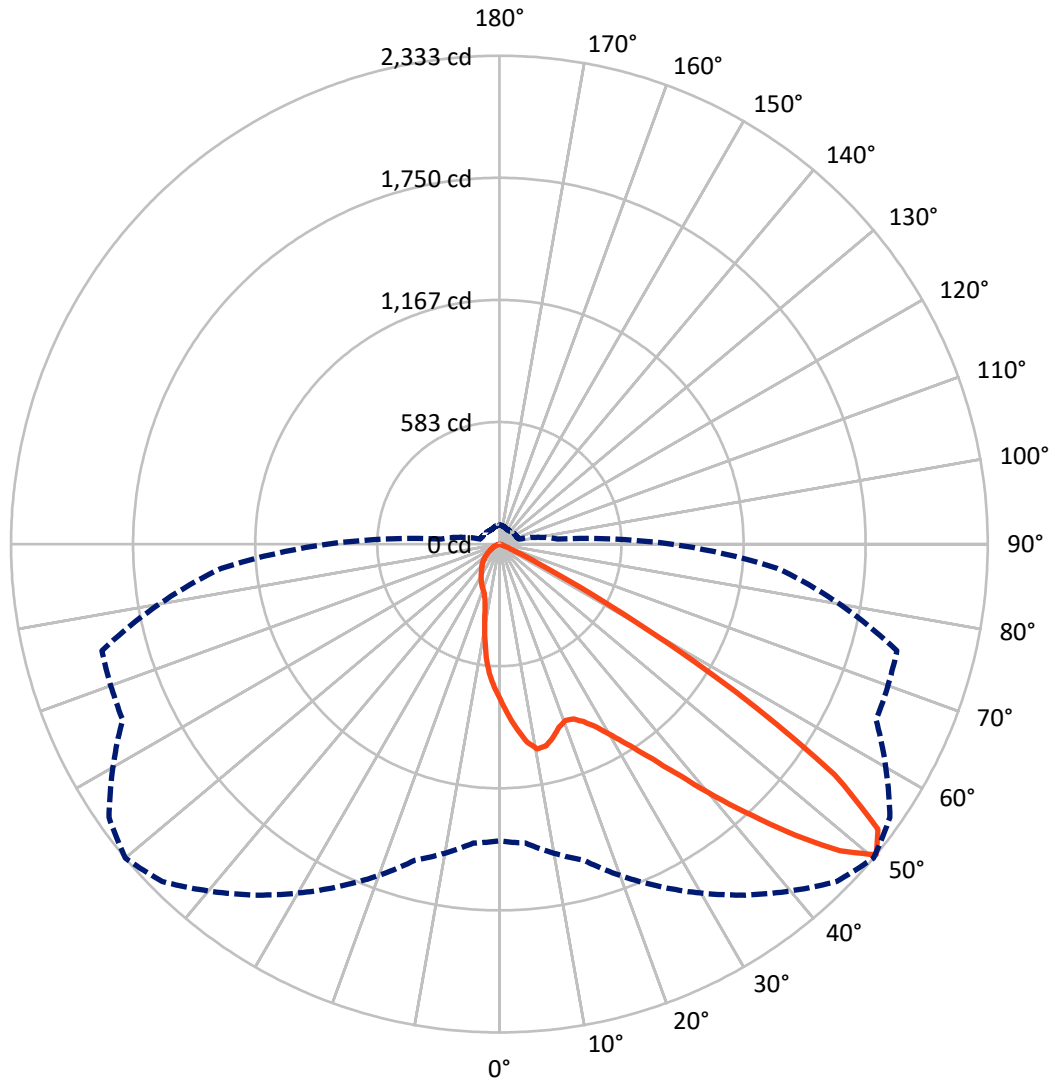
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Short - N/A

REPORT NUMBER: P629224
CATALOG NUMBER: GWS-SA1B-730-U-AFL-W-GRSBK

Luminous Intensity Polar Plot



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

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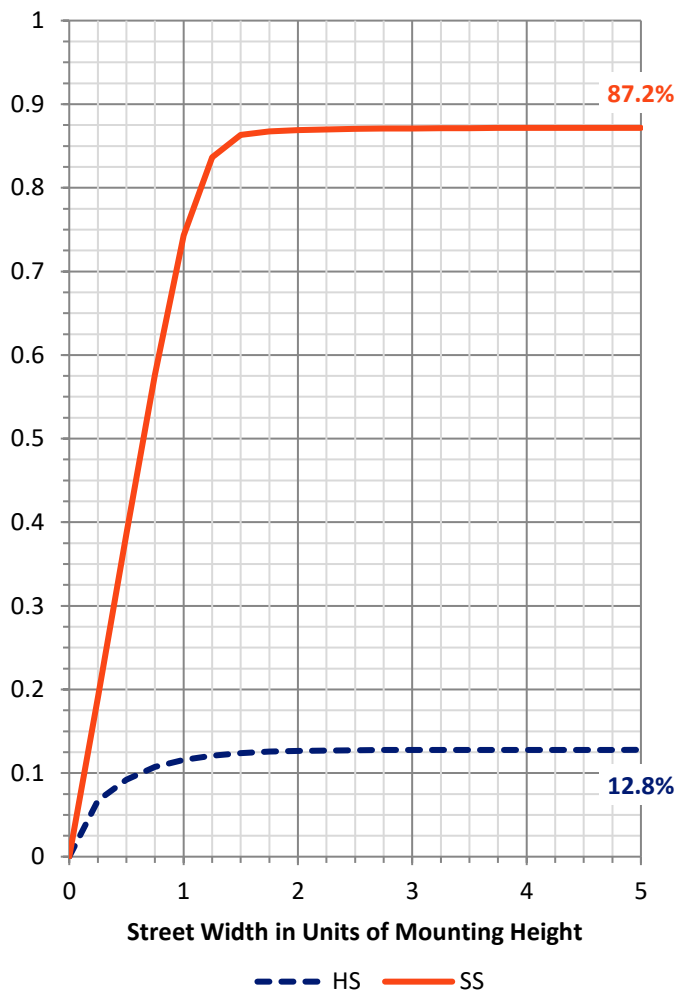
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	315.8	0.0	315.8
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	2142.2	0.0	2142.2
	% Fixture	87.2	0.0	87.2
Total	Lumens	2458.0	0.0	2458.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.1	2.8
10°-20°	178.2	7.3
20°-30°	294.1	12.0
30°-40°	485.4	19.7
40°-50°	768.0	31.2
50°-60°	581.5	23.7
60°-70°	72.8	3.0
70°-80°	8.2	0.3
80°-90°	0.6	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°	2458.0	100.0
0°-180°	2458.0	100.0

Coefficient of Utilization



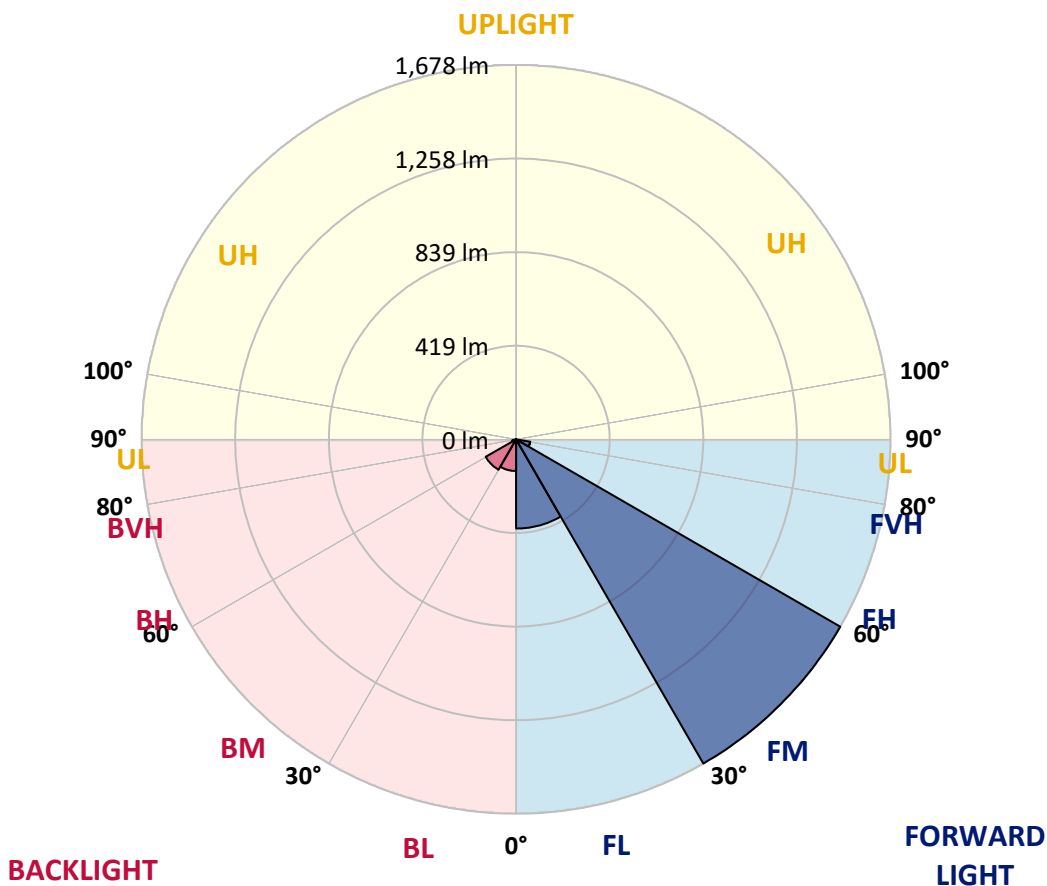
REPORT NUMBER: P629224

CATALOG NUMBER: GWS-SA1B-730-U-AFL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	399.7	16.3			
FM (30°-60°)	1677.8	68.3			
FH (60°-80°)	64.3	2.6			G0/660
FVH (80°-90°)	0.3	0.0			G0/10
BL (0°-30°)	141.8	5.8	B1/500		
BM (30°-60°)	157.1	6.4	B0/220		
BH (60°-80°)	16.7	0.7	B0/110		G0/110
BVH (80°-90°)	0.3	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-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	744.7	744.7	744.7	744.7	744.7	744.7	744.7	744.7	744.7	744.7	744.7
2.5°	848.6	855.3	853.5	844.6	835.0	828.2	817.7	814.4	790.5	773.9	756.4
5°	951.0	953.1	950.8	940.0	923.2	907.0	889.7	879.7	839.7	803.6	766.9
7.5°	975.6	973.0	977.5	982.8	980.5	973.5	955.2	944.2	896.5	837.8	782.1
10°	898.9	893.0	909.6	937.5	966.7	999.7	995.0	995.9	952.0	880.8	802.0
12.5°	797.1	794.7	807.1	839.4	896.7	971.6	989.6	1019.8	1002.7	927.4	824.7
15°	752.4	753.6	761.1	781.4	822.6	915.7	959.0	1013.5	1048.1	972.5	849.7
17.5°	759.2	763.4	763.2	769.9	795.0	869.6	920.1	993.6	1083.2	1024.5	878.5
20°	805.3	809.5	803.2	798.0	806.4	857.9	899.8	973.5	1106.8	1076.9	908.9
22.5°	874.3	879.2	864.2	849.5	844.1	877.1	907.5	965.3	1124.9	1124.9	936.1
25°	957.8	964.6	941.4	915.2	900.3	917.6	940.5	983.8	1143.3	1167.9	954.5
27.5°	1051.2	1051.4	1031.5	1002.0	974.0	976.1	989.9	1025.4	1163.7	1214.2	969.0
30°	1156.2	1156.9	1130.5	1095.1	1059.8	1050.2	1061.9	1088.8	1206.0	1272.5	989.2
32.5°	1291.9	1295.2	1257.3	1205.3	1159.5	1141.5	1148.2	1176.6	1273.4	1345.5	1019.3
35°	1475.3	1478.8	1422.9	1354.4	1281.4	1254.2	1261.0	1289.6	1371.0	1449.1	1067.5
37.5°	1656.4	1661.1	1604.5	1540.6	1440.5	1395.5	1402.6	1429.7	1517.4	1592.3	1144.7
40°	1781.6	1787.9	1770.3	1727.3	1634.4	1575.4	1583.9	1593.7	1678.6	1763.5	1244.9
42.5°	1847.5	1856.4	1863.9	1885.9	1837.0	1787.6	1773.4	1774.1	1842.6	1938.1	1349.0
45°	1851.5	1860.2	1898.5	1983.5	2020.7	2010.4	1984.4	1966.9	1967.8	2054.4	1414.0
47.5°	1722.8	1739.0	1810.8	1977.1	2117.1	2202.4	2189.3	2147.7	2020.4	2062.1	1407.0
50°	1418.0	1433.9	1564.5	1803.8	2046.9	2279.2	2333.2	2277.3	1986.0	1965.9	1334.7
52.5°	1029.9	1031.5	1116.2	1395.8	1762.4	2137.6	2264.9	2259.5	1933.6	1849.4	1236.0
55°	489.2	483.3	578.6	787.7	1218.9	1728.9	1943.5	2004.3	1859.2	1765.2	1159.5
57.5°	142.5	145.3	187.6	307.4	609.7	1105.0	1331.0	1444.2	1526.1	1451.2	899.3
60°	63.9	64.1	71.4	93.6	203.1	514.0	688.1	828.2	912.4	845.5	446.2
62.5°	46.3	46.6	49.4	52.9	69.0	174.1	258.1	343.9	350.2	229.3	113.0
65°	38.6	38.6	39.1	39.1	41.4	62.2	78.4	101.1	85.2	63.2	44.2
67.5°	31.1	31.3	31.8	31.8	31.1	31.1	33.7	37.0	39.5	48.9	40.7
70°	24.3	24.1	24.1	24.3	23.6	20.1	21.8	24.8	27.1	38.1	35.3
72.5°	19.0	19.2	19.0	18.0	16.4	11.9	12.9	16.1	17.3	23.9	23.9
75°	14.3	14.5	13.6	10.3	6.8	3.7	4.9	8.0	10.1	11.7	8.7
77.5°	1.9	1.9	1.4	1.4	1.2	1.4	1.4	1.9	2.8	2.8	2.1
80°	0.2	0.2	0.2	0.5	0.7	0.9	0.9	0.9	0.9	1.2	1.2
82.5°	0.2	0.2	0.2	0.2	0.7	0.7	0.9	0.9	0.9	0.9	0.9
85°	0.0	0.0	0.0	0.2	0.5	0.7	0.7	0.9	0.9	0.9	0.9
87.5°	0.0	0.0	0.0	0.2	0.5	0.7	0.7	0.7	0.9	0.9	0.9
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°	744.7	744.7	744.7	744.7	744.7	744.7	744.7	744.7	744.7	744.7	744.7
2.5°	745.8	732.3	715.9	704.7	688.8	678.2	663.3	653.2	644.5	637.8	641.5
5°	746.1	724.6	691.1	662.6	631.4	602.9	572.3	548.2	526.4	516.6	522.0
7.5°	750.8	719.9	668.6	617.9	558.2	499.3	444.0	399.1	376.9	366.4	369.6
10°	759.9	717.8	643.6	559.4	462.5	382.0	328.5	298.1	285.7	279.1	280.3
12.5°	768.3	716.4	611.1	482.4	365.0	296.4	268.6	264.4	266.9	267.2	266.9
15°	779.8	713.8	570.8	403.3	292.0	256.2	256.9	263.0	269.0	270.9	270.5
17.5°	791.9	709.8	518.9	327.5	247.8	244.5	252.7	260.9	266.9	267.9	268.1
20°	804.6	701.6	459.7	267.4	227.2	235.6	244.7	250.8	255.2	256.6	257.1
22.5°	810.4	684.3	391.4	224.4	213.4	224.6	231.4	239.3	240.7	235.6	236.5
25°	807.4	655.1	324.7	195.4	199.6	210.8	220.9	216.9	211.0	207.3	208.5
27.5°	797.8	616.2	259.5	174.1	184.8	199.1	200.3	195.8	194.9	191.8	192.8
30°	787.5	571.6	208.7	157.0	169.9	184.8	181.3	183.0	183.2	179.7	180.8
32.5°	781.2	524.8	166.1	145.5	160.3	163.1	170.1	173.4	173.6	165.4	166.8
35°	783.3	478.7	140.6	136.2	151.4	150.7	160.5	162.4	148.8	137.6	138.7
37.5°	800.4	436.1	126.1	128.9	135.9	141.3	148.8	136.4	133.4	128.2	128.9
40°	832.2	399.8	117.4	124.5	125.4	134.1	122.6	124.2	124.5	121.2	121.9
42.5°	869.4	369.6	112.3	121.9	119.6	121.0	109.5	112.8	116.3	114.9	115.1
45°	888.1	340.2	107.9	113.0	113.7	100.4	97.8	101.3	105.7	106.4	106.7
47.5°	871.5	312.1	103.2	100.1	104.8	91.5	88.4	89.6	94.8	97.6	98.0
50°	820.7	279.8	96.2	88.7	86.1	82.1	79.3	79.5	85.4	90.3	91.2
52.5°	749.4	246.1	84.7	75.1	69.3	72.3	73.0	71.6	77.0	81.9	82.8
55°	680.1	204.0	67.1	61.1	55.7	62.2	64.1	62.2	63.9	67.1	67.4
57.5°	478.9	115.3	51.5	50.5	46.1	53.3	56.4	53.6	50.8	52.9	53.3
60°	222.0	60.4	39.5	39.5	38.4	45.9	51.0	47.0	41.6	42.6	43.3
62.5°	69.5	38.1	29.0	27.4	31.3	39.1	43.3	39.3	33.0	33.0	33.9
65°	39.3	32.8	22.9	21.1	25.5	31.3	33.9	29.7	24.1	23.6	23.6
67.5°	36.5	31.1	20.4	17.1	18.0	20.1	21.1	18.2	16.6	16.4	16.6
70°	30.2	26.0	16.4	11.7	11.0	10.8	11.2	10.5	10.1	10.3	11.0
72.5°	18.7	15.7	10.3	7.0	6.1	5.8	5.8	5.8	5.6	5.6	5.6
75°	6.8	5.8	4.7	3.5	3.0	2.8	2.8	3.0	2.8	2.6	2.3
77.5°	2.1	1.9	1.9	1.9	1.6	1.4	1.2	1.2	0.9	0.7	0.7
80°	1.2	1.2	1.2	1.2	0.9	0.9	0.7	0.5	0.2	0.2	0.0
82.5°	1.2	1.2	1.2	0.9	0.9	0.9	0.7	0.5	0.2	0.0	0.0
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.7	0.5	0.2	0.0	0.0
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.7	0.5	0.2	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)