

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: P629170

Luminaire Tested: GWS-SA1B-727-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629170
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1B-727-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 2700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2719.2 lumens
Efficiency: N/A
Efficacy: 108.8 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

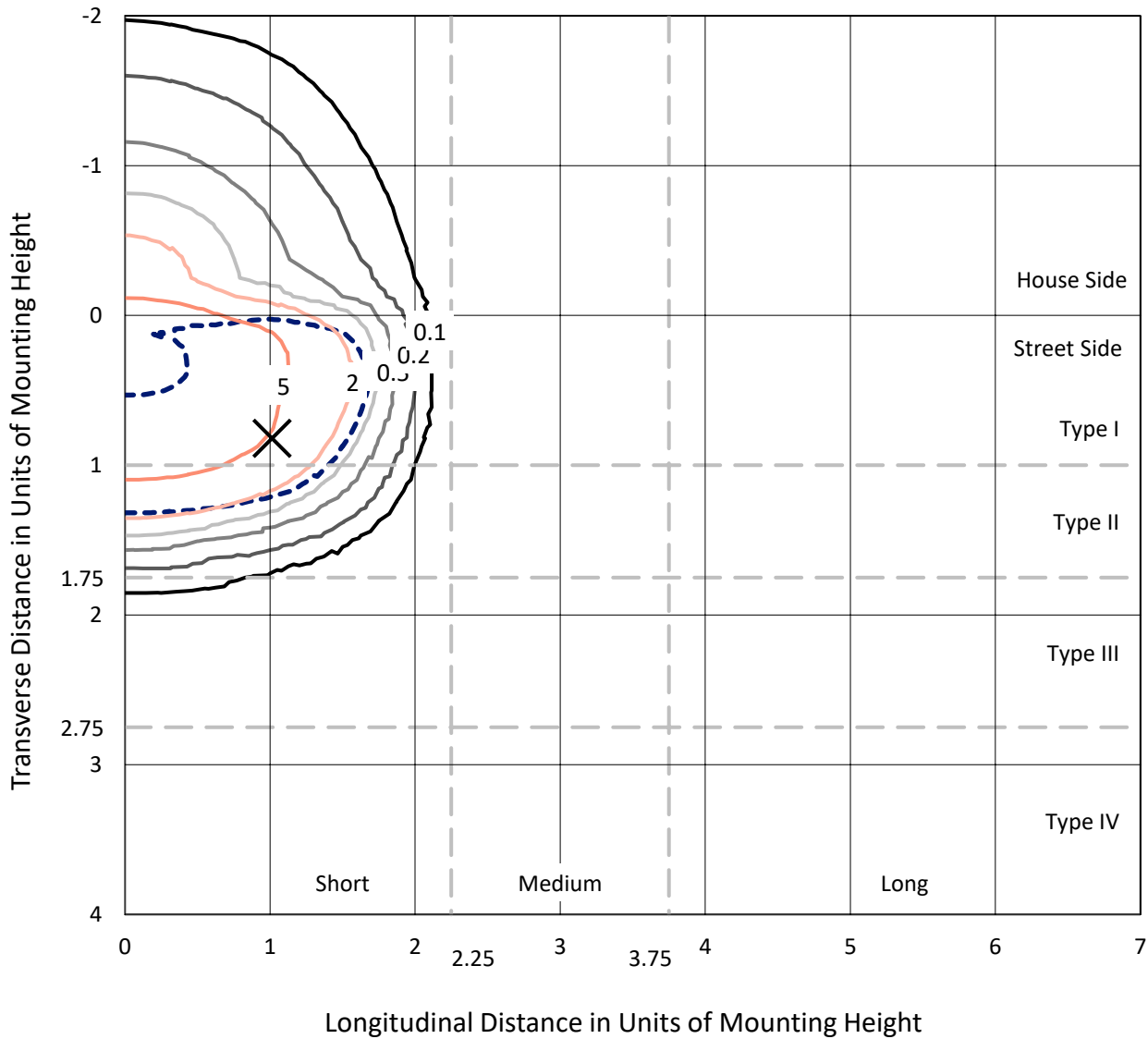
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

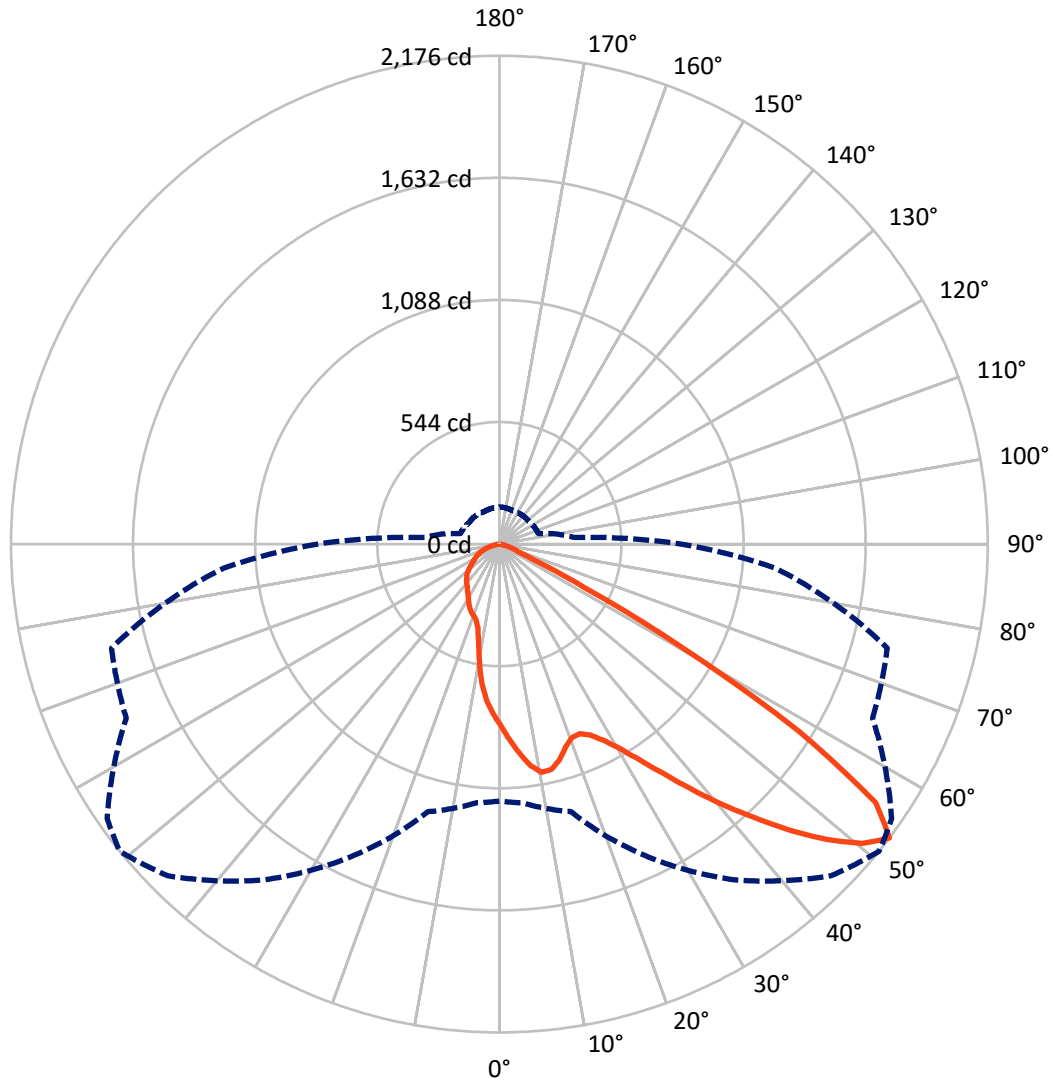
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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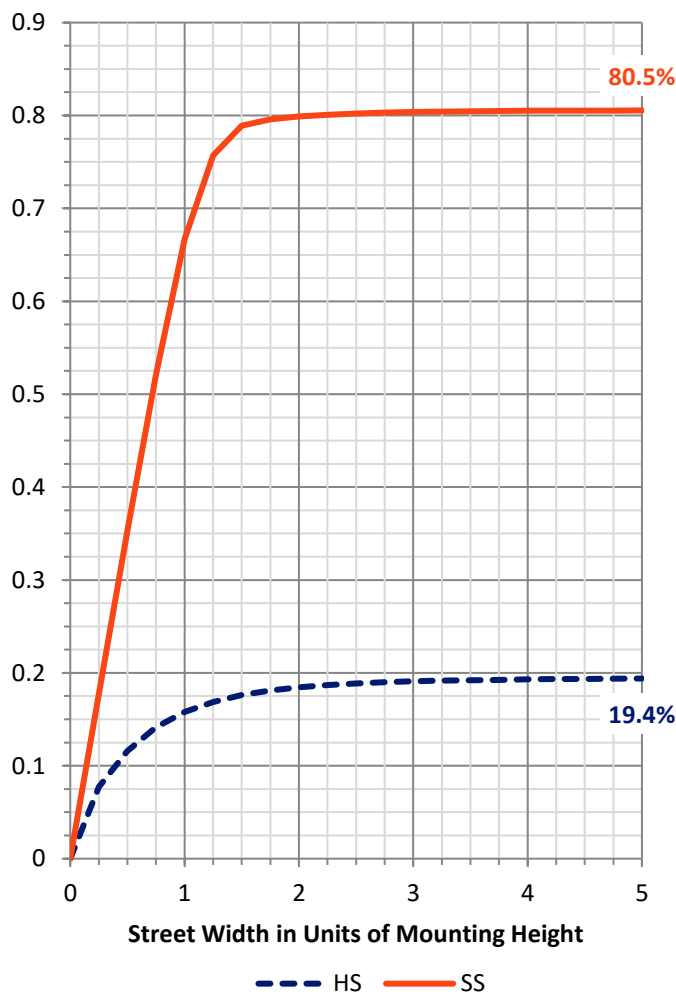
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	529.8	0.0	529.8
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	2189.4	0.0	2189.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	2719.2	0.0	2719.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.6	2.8
10°-20°	196.3	7.2
20°-30°	319.2	11.7
30°-40°	505.8	18.6
40°-50°	762.9	28.1
50°-60°	660.0	24.3
60°-70°	149.6	5.5
70°-80°	44.1	1.6
80°-90°	5.7	0.2
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°	2719.2	100.0
0°-180°	2719.2	100.0

Coefficient of Utilization



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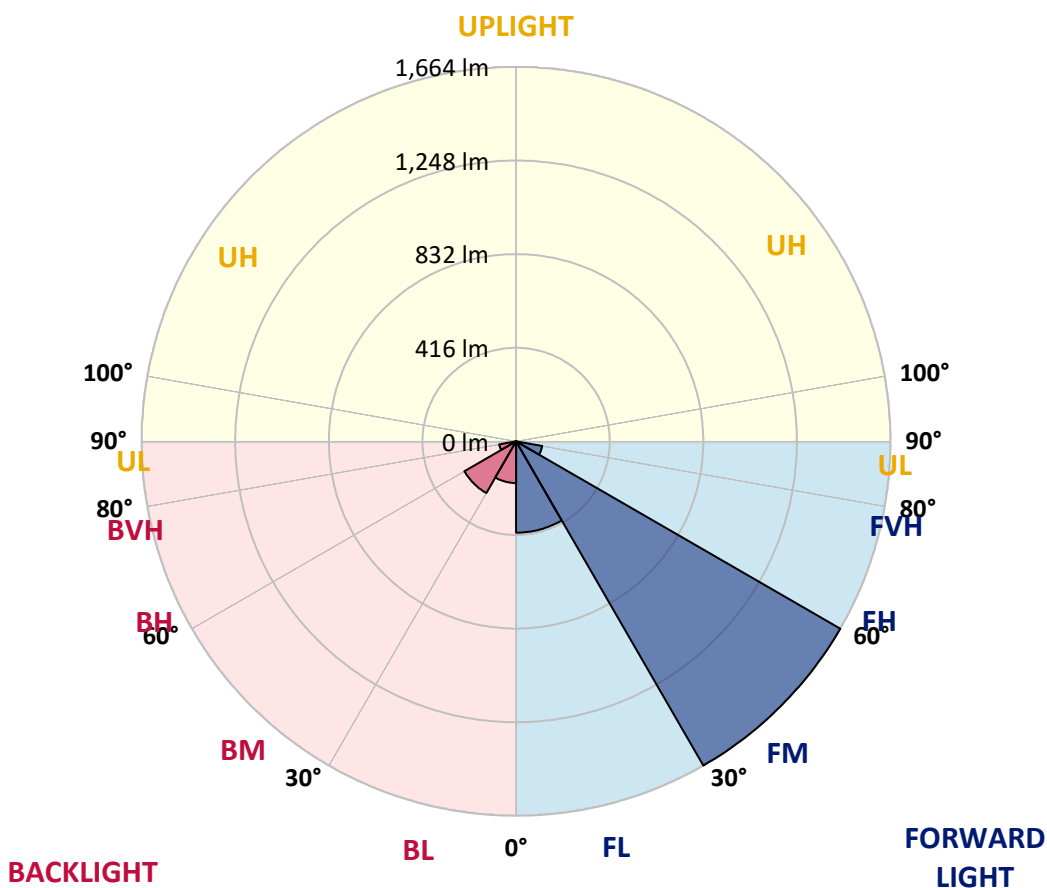
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	405.8	14.9			
FM (30°-60°)	1663.6	61.2			
FH (60°-80°)	117.8	4.3			G0/660
FVH (80°-90°)	2.1	0.1			G0/10
BL (0°-30°)	185.2	6.8	B1/500		
BM (30°-60°)	265.1	9.7	B1/1000		
BH (60°-80°)	76.0	2.8	B0/110		G0/110
BVH (80°-90°)	3.5	0.1			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°	51°	55°	65°	75°	85°
0°	809.6	809.6	809.6	809.6	809.6	809.6	809.6	809.6	809.6	809.6	809.6
2.5°	902.3	907.4	899.5	896.5	891.5	882.9	873.0	870.2	849.0	835.0	819.3
5°	992.9	995.7	989.3	982.8	970.6	955.3	936.2	932.1	893.4	861.4	828.1
7.5°	1013.1	1012.1	1017.6	1021.3	1019.8	1013.8	996.8	988.8	942.6	891.9	842.7
10°	933.2	927.2	947.8	972.3	1001.7	1035.7	1033.8	1033.1	992.9	933.0	861.4
12.5°	827.3	824.3	841.0	871.7	927.4	1002.6	1030.7	1052.7	1038.3	972.1	882.3
15°	766.7	765.6	777.0	799.1	843.4	938.4	998.5	1041.9	1077.2	1014.0	904.4
17.5°	755.7	756.4	760.2	772.9	804.7	882.9	952.5	1013.1	1107.5	1060.0	932.1
20°	787.7	792.0	785.4	787.3	804.5	862.9	921.2	984.1	1126.8	1106.2	962.0
22.5°	858.8	857.3	842.7	834.1	834.4	875.2	917.7	970.6	1139.5	1151.1	989.1
25°	939.4	937.7	920.3	901.2	889.1	908.5	942.4	985.0	1150.9	1192.1	1010.8
27.5°	1034.6	1029.2	1009.9	985.4	958.8	967.1	990.1	1023.9	1168.5	1232.5	1025.2
30°	1126.8	1133.0	1105.3	1076.3	1048.2	1043.0	1056.3	1086.8	1204.4	1279.8	1042.3
32.5°	1249.1	1246.9	1216.2	1178.4	1138.2	1134.3	1144.8	1172.8	1268.8	1345.1	1068.6
35°	1397.1	1397.5	1353.9	1302.8	1245.6	1235.3	1252.9	1280.0	1364.9	1433.6	1110.0
37.5°	1551.0	1550.3	1512.3	1454.3	1376.3	1361.7	1381.8	1402.0	1485.0	1554.2	1174.5
40°	1658.8	1663.1	1645.3	1614.8	1540.9	1505.2	1523.0	1537.0	1615.6	1696.0	1259.4
42.5°	1720.1	1726.5	1730.4	1748.6	1709.7	1671.7	1665.3	1672.6	1732.3	1827.7	1339.1
45°	1733.2	1741.8	1769.9	1837.6	1852.6	1841.9	1820.8	1803.2	1819.3	1921.2	1391.3
47.5°	1675.4	1690.4	1750.6	1869.0	1956.8	1990.6	1967.2	1940.3	1869.6	1945.2	1385.9
50°	1446.3	1463.9	1599.5	1804.9	1971.7	2094.6	2096.7	2057.0	1863.6	1875.8	1318.5
52.5°	1145.1	1157.1	1234.7	1530.1	1826.2	2090.3	2176.2	2133.7	1834.6	1789.0	1234.0
55°	684.4	703.7	776.1	1009.5	1422.7	1852.6	2035.7	2056.3	1820.4	1716.2	1176.4
57.5°	231.0	240.4	309.6	445.9	838.4	1356.5	1572.9	1656.7	1652.6	1604.9	1064.1
60°	110.0	112.2	126.1	169.1	335.6	708.9	931.0	1027.7	1115.8	1124.6	662.0
62.5°	83.8	85.1	92.2	101.4	134.9	298.7	426.7	500.7	534.8	459.0	241.1
65°	70.0	71.1	76.5	82.3	91.8	129.4	163.7	188.9	170.2	132.6	115.0
67.5°	58.4	59.3	63.4	69.6	76.1	86.6	90.9	93.5	98.0	110.0	105.7
70°	45.8	46.6	50.9	56.3	62.5	65.1	69.2	71.8	80.8	96.3	95.8
72.5°	35.2	36.3	38.7	42.1	47.3	49.9	54.4	57.4	62.5	75.0	80.1
75°	25.8	26.4	28.6	29.7	30.3	29.7	34.2	37.6	44.5	49.2	50.5
77.5°	10.5	11.8	11.4	11.4	13.5	16.3	18.7	20.8	25.6	28.4	28.6
80°	4.3	4.7	5.6	6.2	7.5	9.7	11.2	12.0	14.2	15.9	17.2
82.5°	2.6	2.8	3.2	3.4	4.3	5.6	6.4	7.1	8.8	10.5	11.2
85°	1.3	1.3	1.5	1.7	2.1	2.6	3.0	3.4	4.5	5.6	6.2
87.5°	0.2	0.2	0.2	0.4	0.6	0.9	1.1	1.3	1.5	1.7	2.1
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°	809.6	809.6	809.6	809.6	809.6	809.6	809.6	809.6	809.6	809.6	809.6
2.5°	810.1	798.5	784.9	774.2	761.7	752.5	739.4	731.2	723.5	717.0	712.3
5°	810.9	791.4	763.2	738.3	712.5	688.0	662.9	642.5	624.2	609.0	607.7
7.5°	815.9	787.7	743.7	700.1	649.8	601.2	552.7	513.1	483.0	467.3	464.1
10°	824.3	787.3	723.7	654.1	568.3	490.1	432.5	402.5	385.1	378.8	376.7
12.5°	833.1	786.2	698.1	589.2	470.1	401.6	370.0	366.4	369.6	370.0	369.8
15°	843.8	785.6	665.9	513.1	398.4	360.6	362.7	370.4	378.0	379.7	379.7
17.5°	856.9	784.1	622.1	438.8	353.5	352.6	364.0	374.3	381.4	382.7	382.7
20°	870.7	780.2	568.1	378.2	335.2	347.7	359.9	367.9	372.8	374.5	374.7
22.5°	880.1	769.9	506.0	333.3	323.8	338.2	347.0	355.2	355.2	350.9	349.6
25°	882.1	747.8	438.8	302.5	310.3	323.6	332.6	327.9	319.1	315.6	315.4
27.5°	875.0	715.5	372.4	280.6	293.9	307.3	305.8	298.9	295.0	291.6	292.9
30°	866.4	676.8	314.8	262.6	275.0	288.1	283.0	280.6	277.8	274.0	274.8
32.5°	860.6	633.7	270.5	248.6	262.4	264.5	268.2	267.9	265.4	258.1	257.6
35°	862.3	590.0	240.9	237.2	251.8	251.0	257.8	256.6	238.7	228.6	228.0
37.5°	876.0	548.1	223.5	228.2	235.1	240.4	246.5	231.0	224.8	218.3	218.7
40°	902.3	509.2	214.0	223.3	225.0	232.9	219.0	218.7	215.9	210.1	209.9
42.5°	931.9	476.4	207.6	220.9	218.5	220.0	205.2	206.9	206.7	203.1	202.0
45°	950.0	446.1	202.4	212.1	212.7	197.7	193.2	195.1	196.2	194.2	194.0
47.5°	931.3	411.3	197.0	198.5	204.1	187.6	182.0	182.2	184.1	184.4	183.5
50°	878.8	372.4	190.6	186.9	183.3	177.1	171.9	170.8	172.8	174.7	175.3
52.5°	811.1	335.2	179.8	174.3	165.7	165.7	163.3	159.9	162.4	165.0	165.9
55°	761.5	307.7	164.6	158.4	148.9	152.1	151.7	148.7	152.1	154.1	154.7
57.5°	659.9	247.3	144.8	142.9	134.9	138.8	139.7	135.8	134.1	134.5	135.2
60°	391.7	159.7	130.6	130.4	123.3	127.8	130.4	126.6	121.4	122.0	122.9
62.5°	175.8	122.0	112.8	111.9	111.7	117.5	120.3	116.7	109.4	110.0	110.9
65°	110.7	105.5	98.0	98.0	101.4	106.4	108.5	105.5	97.1	96.0	96.9
67.5°	102.7	98.2	90.5	89.0	90.7	94.8	95.0	89.2	84.2	83.4	83.4
70°	92.2	88.7	81.2	78.2	77.6	77.4	76.7	75.2	72.0	71.1	71.6
72.5°	76.3	73.9	69.2	66.0	64.2	64.0	61.5	60.2	57.4	56.9	56.7
75°	50.5	51.1	51.1	50.7	49.2	48.6	45.8	44.5	41.3	40.0	39.8
77.5°	29.9	30.5	31.4	31.6	31.4	31.4	28.8	27.3	24.1	22.3	21.9
80°	18.3	18.7	19.1	19.8	18.9	18.3	15.9	14.4	12.9	11.8	11.6
82.5°	11.8	12.2	12.5	12.9	12.5	11.6	9.7	8.8	7.7	6.9	6.7
85°	6.7	6.9	7.3	7.3	6.7	6.0	4.9	4.3	3.7	3.2	3.2
87.5°	2.4	2.4	2.4	2.6	2.1	1.9	1.3	0.9	0.6	0.6	0.6
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)