

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: P628840

Luminaire Tested: GWS-SA1A-740-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628840
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-SA1A-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2579.9 lumens
Efficiency: N/A
Efficacy: 131.0 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

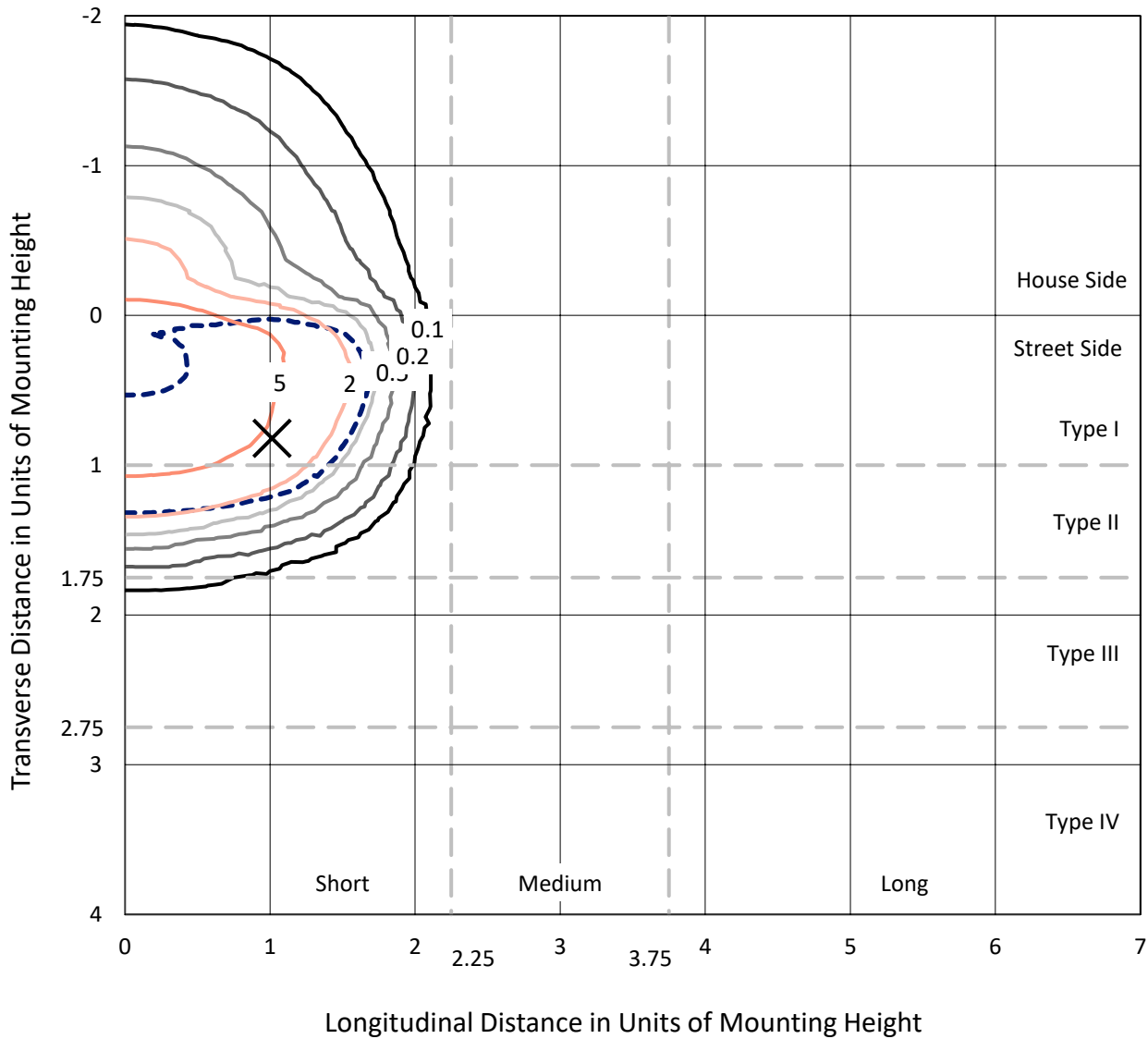
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

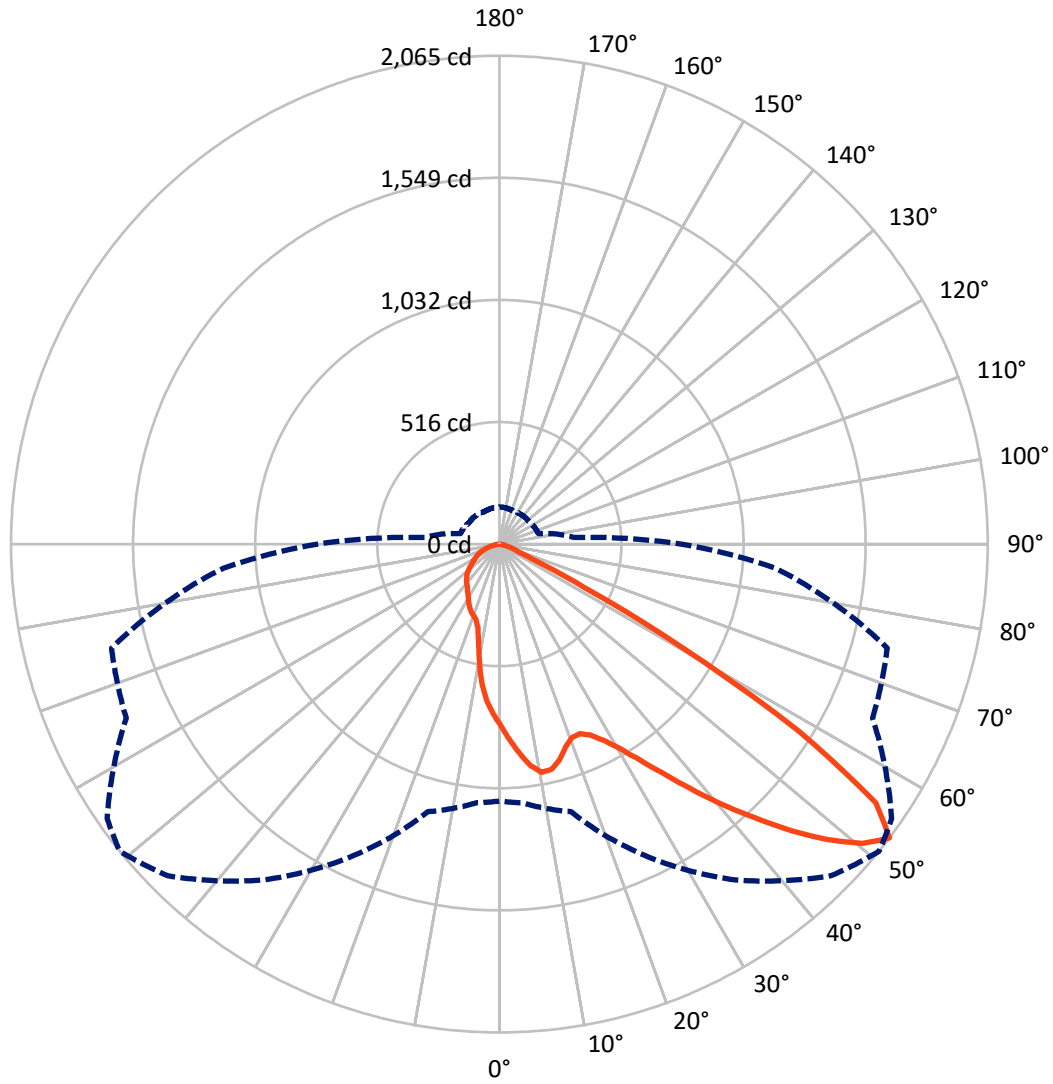
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.4 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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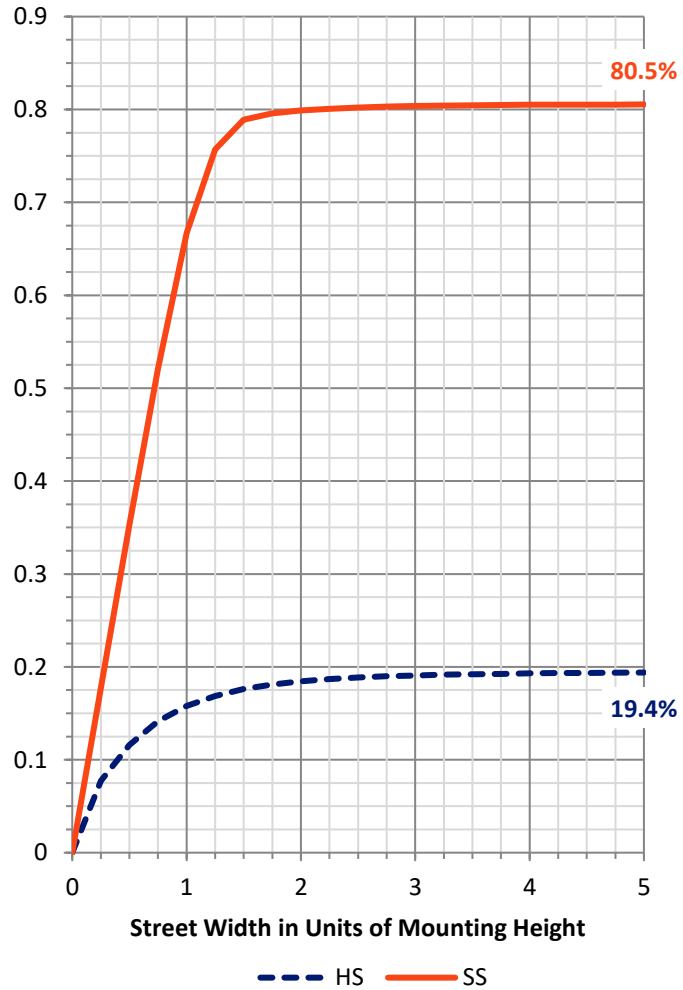
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	502.7	0.0	502.7
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	2077.2	0.0	2077.2
	% Fixture	80.5	0.0	80.5
Total	Lumens	2579.9	0.0	2579.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.7	2.8
10°-20°	186.3	7.2
20°-30°	302.8	11.7
30°-40°	479.9	18.6
40°-50°	723.8	28.1
50°-60°	626.2	24.3
60°-70°	142.0	5.5
70°-80°	41.9	1.6
80°-90°	5.4	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°	2579.9	100.0
0°-180°	2579.9	100.0

Coefficient of Utilization



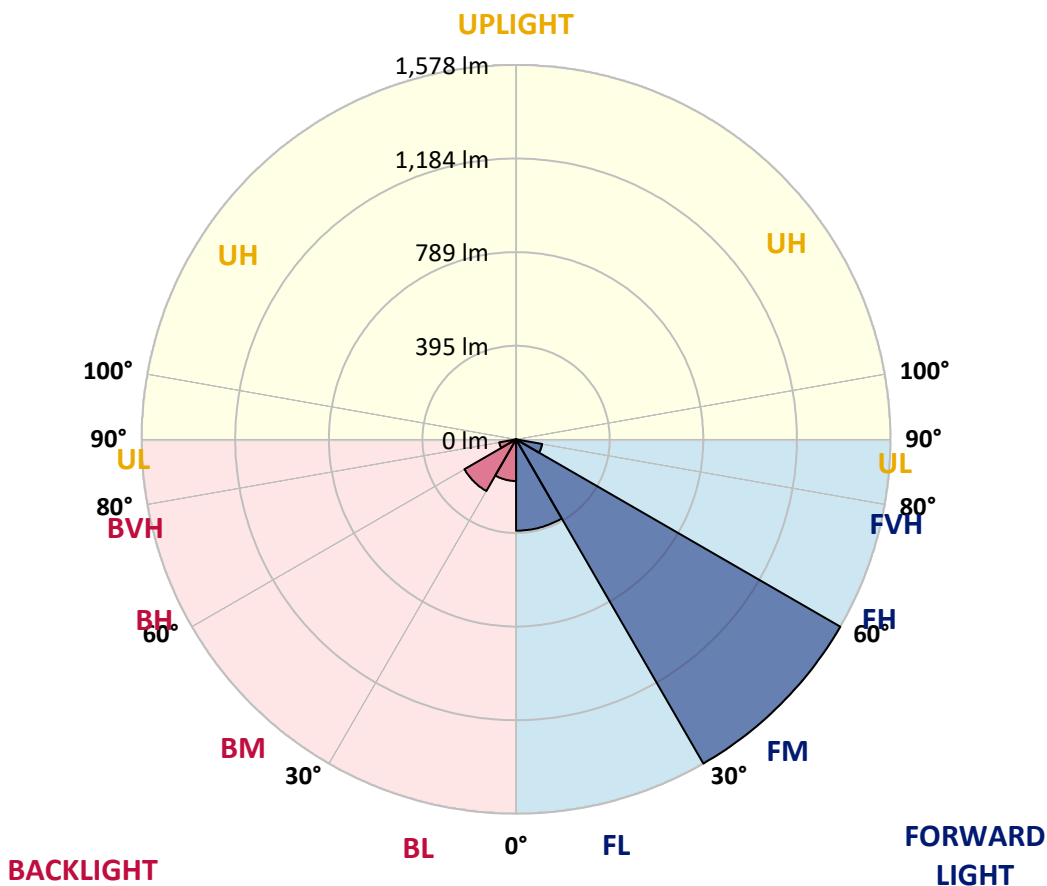
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	385.1	14.9			
FM (30°-60°)	1578.4	61.2			
FH (60°-80°)	111.7	4.3			G0/660
FVH (80°-90°)	2.0	0.1			G0/10
BL (0°-30°)	175.7	6.8	B1/500		
BM (30°-60°)	251.5	9.7	B1/1000		
BH (60°-80°)	72.1	2.8	B0/110		G0/110
BVH (80°-90°)	3.4	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°	768.2	768.2	768.2	768.2	768.2	768.2	768.2	768.2	768.2	768.2	768.2
2.5°	856.0	860.9	853.4	850.5	845.8	837.7	828.3	825.7	805.5	792.2	777.3
5°	942.1	944.7	938.6	932.5	920.9	906.4	888.2	884.4	847.7	817.3	785.7
7.5°	961.2	960.2	965.5	969.0	967.5	961.8	945.7	938.2	894.4	846.2	799.6
10°	885.4	879.7	899.3	922.5	950.4	982.6	980.8	980.2	942.1	885.2	817.3
12.5°	784.9	782.0	797.9	827.1	879.9	951.2	977.9	998.7	985.1	922.3	837.1
15°	727.4	726.4	737.2	758.2	800.2	890.3	947.4	988.5	1022.0	962.0	858.1
17.5°	717.0	717.6	721.3	733.3	763.5	837.7	903.7	961.2	1050.7	1005.7	884.4
20°	747.4	751.4	745.1	747.0	763.3	818.7	874.0	933.7	1069.1	1049.5	912.7
22.5°	814.9	813.4	799.6	791.4	791.6	830.3	870.7	920.9	1081.1	1092.1	938.4
25°	891.3	889.7	873.2	855.0	843.6	861.9	894.2	934.5	1091.9	1131.0	959.0
27.5°	981.6	976.5	958.2	934.9	909.6	917.6	939.4	971.4	1108.6	1169.4	972.6
30°	1069.1	1075.0	1048.7	1021.2	994.5	989.6	1002.2	1031.2	1142.7	1214.2	989.0
32.5°	1185.1	1183.0	1153.9	1118.0	1079.9	1076.2	1086.2	1112.7	1203.8	1276.2	1013.8
35°	1325.5	1325.9	1284.6	1236.0	1181.8	1172.0	1188.7	1214.4	1295.0	1360.2	1053.2
37.5°	1471.5	1470.9	1434.8	1379.8	1305.8	1291.9	1311.1	1330.2	1408.9	1474.6	1114.3
40°	1573.8	1577.9	1561.0	1532.0	1461.9	1428.1	1445.0	1458.2	1532.9	1609.1	1194.9
42.5°	1631.9	1638.1	1641.7	1659.1	1622.2	1586.1	1580.0	1586.9	1643.6	1734.1	1270.5
45°	1644.4	1652.5	1679.2	1743.5	1757.7	1747.5	1727.6	1710.8	1726.1	1822.8	1320.0
47.5°	1589.5	1603.8	1660.9	1773.2	1856.6	1888.6	1866.4	1840.9	1773.8	1845.6	1314.9
50°	1372.2	1388.9	1517.6	1712.5	1870.7	1987.3	1989.3	1951.6	1768.1	1779.7	1250.9
52.5°	1086.4	1097.8	1171.4	1451.7	1732.7	1983.2	2064.7	2024.4	1740.6	1697.4	1170.8
55°	649.3	667.7	736.4	957.8	1349.8	1757.7	1931.4	1951.0	1727.1	1628.3	1116.2
57.5°	219.2	228.1	293.8	423.0	795.5	1287.0	1492.3	1571.8	1567.9	1522.7	1009.5
60°	104.4	106.4	119.7	160.4	318.4	672.6	883.3	975.1	1058.7	1067.0	628.1
62.5°	79.5	80.7	87.5	96.2	128.0	283.4	404.9	475.0	507.4	435.5	228.7
65°	66.5	67.5	72.6	78.1	87.1	122.7	155.3	179.2	161.5	125.8	109.1
67.5°	55.5	56.3	60.1	66.1	72.2	82.2	86.2	88.7	93.0	104.4	100.3
70°	43.4	44.2	48.3	53.4	59.3	61.8	65.6	68.1	76.7	91.3	90.9
72.5°	33.4	34.5	36.7	40.0	44.9	47.3	51.6	54.4	59.3	71.1	76.0
75°	24.5	25.1	27.1	28.1	28.7	28.1	32.4	35.7	42.2	46.7	47.9
77.5°	10.0	11.2	10.8	10.8	12.8	15.5	17.7	19.8	24.3	26.9	27.1
80°	4.1	4.5	5.3	5.9	7.1	9.2	10.6	11.4	13.5	15.1	16.3
82.5°	2.4	2.7	3.1	3.3	4.1	5.3	6.1	6.7	8.4	10.0	10.6
85°	1.2	1.2	1.4	1.6	2.0	2.4	2.9	3.3	4.3	5.3	5.9
87.5°	0.2	0.2	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	2.0
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°	768.2	768.2	768.2	768.2	768.2	768.2	768.2	768.2	768.2	768.2	768.2
2.5°	768.6	757.6	744.7	734.5	722.7	713.9	701.5	693.8	686.4	680.3	675.8
5°	769.4	750.8	724.1	700.5	676.0	652.8	628.9	609.6	592.2	577.8	576.5
7.5°	774.1	747.4	705.6	664.2	616.5	570.4	524.3	486.8	458.3	443.4	440.3
10°	782.0	747.0	686.6	620.6	539.2	465.0	410.4	381.8	365.3	359.4	357.4
12.5°	790.4	745.9	662.4	559.0	446.1	381.0	351.1	347.6	350.6	351.1	350.9
15°	800.6	745.3	631.8	486.8	378.0	342.1	344.1	351.5	358.6	360.2	360.2
17.5°	813.0	743.9	590.2	416.3	335.4	334.5	345.3	355.1	361.9	363.1	363.1
20°	826.1	740.2	539.0	358.8	318.0	329.9	341.5	349.0	353.7	355.3	355.5
22.5°	835.0	730.4	480.1	316.2	307.2	320.9	329.2	337.0	337.0	332.9	331.7
25°	836.9	709.5	416.3	287.0	294.4	307.0	315.6	311.1	302.7	299.5	299.3
27.5°	830.1	678.9	353.3	266.2	278.9	291.5	290.1	283.6	279.9	276.6	277.9
30°	822.0	642.2	298.7	249.1	260.9	273.4	268.5	266.2	263.6	259.9	260.7
32.5°	816.5	601.2	256.7	235.9	248.9	251.0	254.4	254.2	251.8	244.8	244.4
35°	818.1	559.8	228.5	225.1	238.9	238.1	244.6	243.4	226.5	216.9	216.3
37.5°	831.2	520.1	212.0	216.5	223.0	228.1	233.8	219.2	213.2	207.1	207.5
40°	856.0	483.2	203.0	211.8	213.4	221.0	207.7	207.5	204.9	199.4	199.2
42.5°	884.2	452.0	196.9	209.6	207.3	208.8	194.7	196.3	196.1	192.7	191.6
45°	901.3	423.2	192.0	201.2	201.8	187.6	183.3	185.1	186.1	184.3	184.1
47.5°	883.6	390.2	186.9	188.4	193.7	178.0	172.7	172.9	174.7	174.9	174.1
50°	833.8	353.3	180.8	177.4	173.9	168.0	163.1	162.1	163.9	165.7	166.4
52.5°	769.6	318.0	170.6	165.3	157.2	157.2	154.9	151.7	154.1	156.6	157.4
55°	722.5	291.9	156.2	150.2	141.3	144.3	143.9	141.1	144.3	146.2	146.8
57.5°	626.1	234.6	137.4	135.6	128.0	131.7	132.5	128.8	127.2	127.6	128.2
60°	371.6	151.5	124.0	123.7	117.0	121.3	123.7	120.1	115.2	115.8	116.6
62.5°	166.8	115.8	107.0	106.2	106.0	111.5	114.2	110.7	103.8	104.4	105.2
65°	105.0	100.1	93.0	93.0	96.2	100.9	103.0	100.1	92.1	91.1	91.9
67.5°	97.4	93.2	85.8	84.4	86.0	89.9	90.1	84.6	79.9	79.1	79.1
70°	87.5	84.2	77.1	74.2	73.6	73.4	72.8	71.4	68.3	67.5	67.9
72.5°	72.4	70.1	65.6	62.6	61.0	60.8	58.3	57.1	54.4	54.0	53.8
75°	47.9	48.5	48.5	48.1	46.7	46.1	43.4	42.2	39.1	37.9	37.7
77.5°	28.3	28.9	29.8	30.0	29.8	29.8	27.3	25.9	22.8	21.2	20.8
80°	17.3	17.7	18.1	18.8	17.9	17.3	15.1	13.7	12.2	11.2	11.0
82.5°	11.2	11.6	11.8	12.2	11.8	11.0	9.2	8.4	7.3	6.5	6.3
85°	6.3	6.5	6.9	6.9	6.3	5.7	4.7	4.1	3.5	3.1	3.1
87.5°	2.2	2.2	2.2	2.4	2.0	1.8	1.2	0.8	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)