

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: P628895

Luminaire Tested: GWS-SA1A-750-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628895
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-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2639 lumens
Efficiency: N/A
Efficacy: 134.0 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

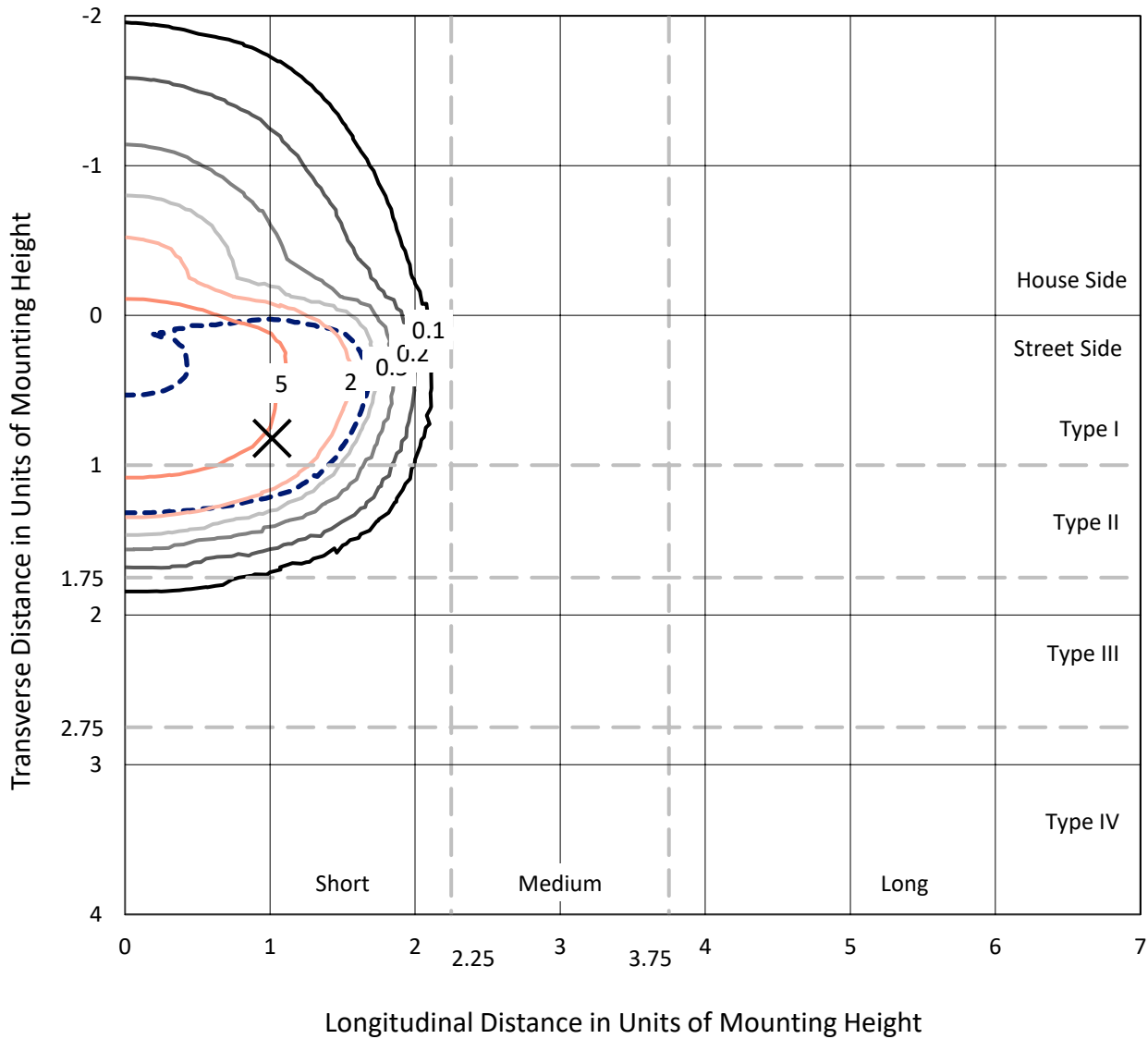
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

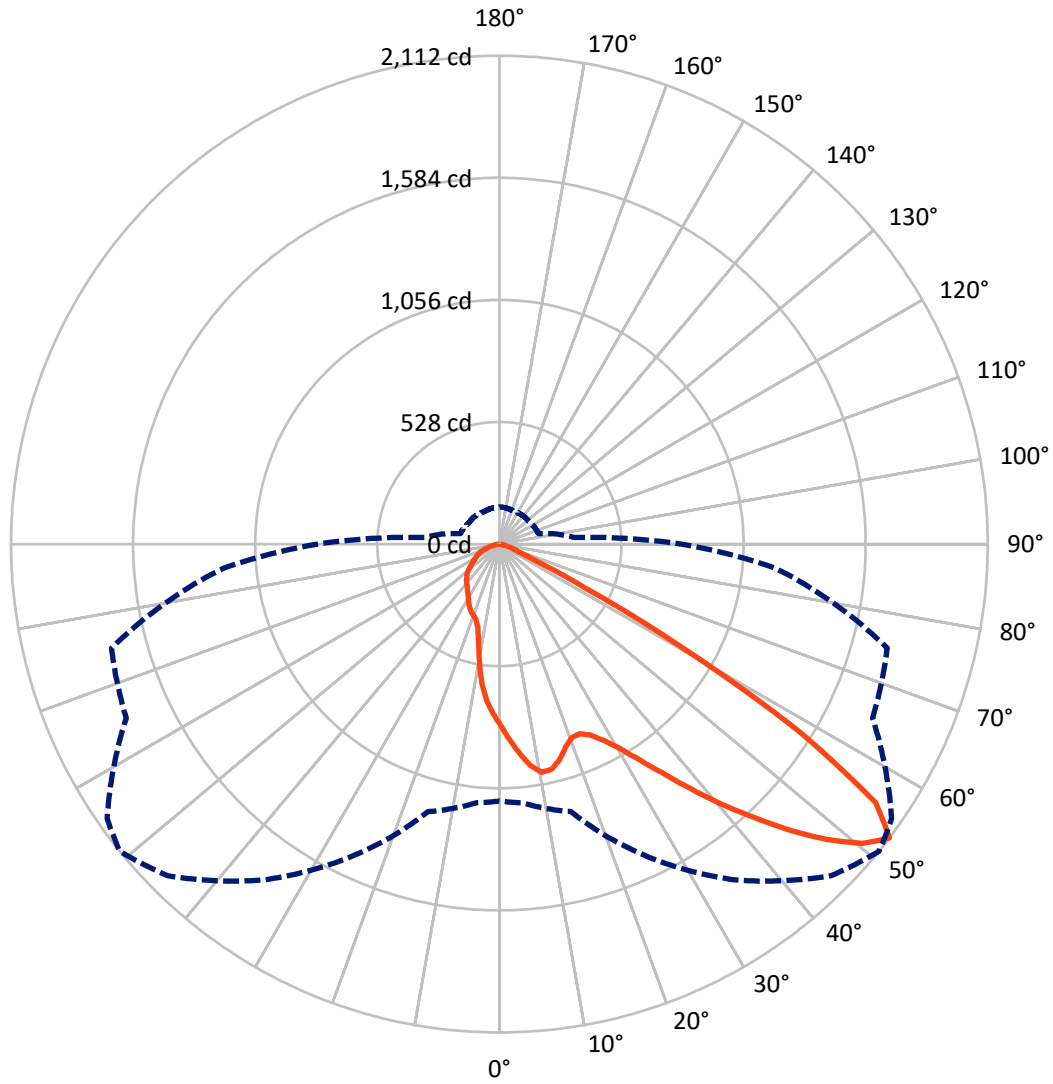
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.6 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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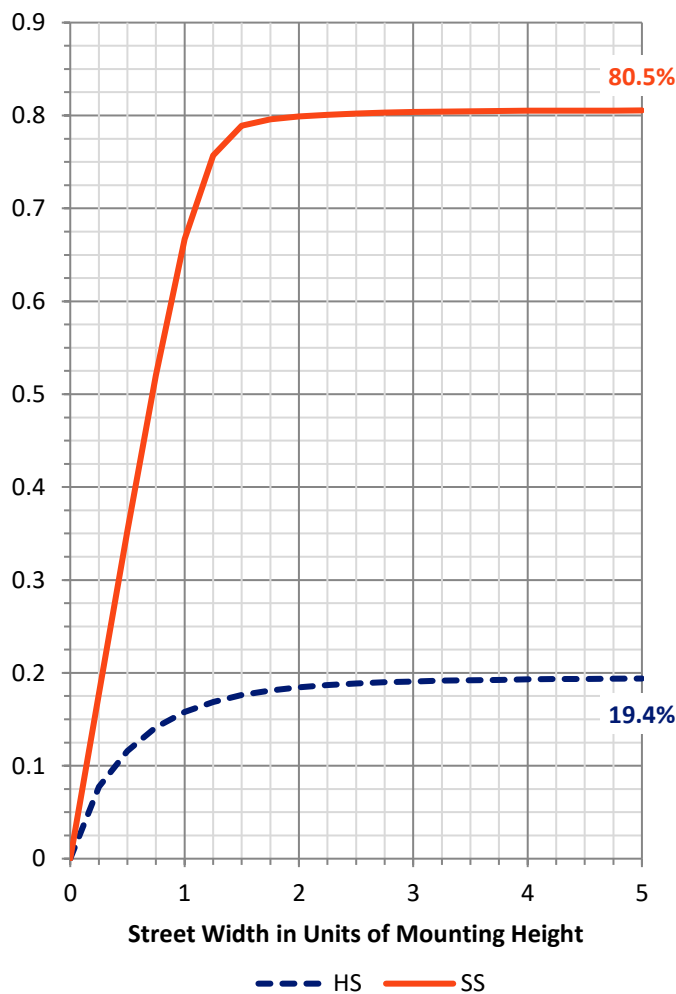
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	514.2	0.0	514.2
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	2124.8	0.0	2124.8
	% Fixture	80.5	0.0	80.5
Total	Lumens	2639.0	0.0	2639.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.3	2.8
10°-20°	190.5	7.2
20°-30°	309.8	11.7
30°-40°	490.9	18.6
40°-50°	740.4	28.1
50°-60°	640.5	24.3
60°-70°	145.2	5.5
70°-80°	42.8	1.6
80°-90°	5.5	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°	2639.0	100.0
0°-180°	2639.0	100.0

Coefficient of Utilization



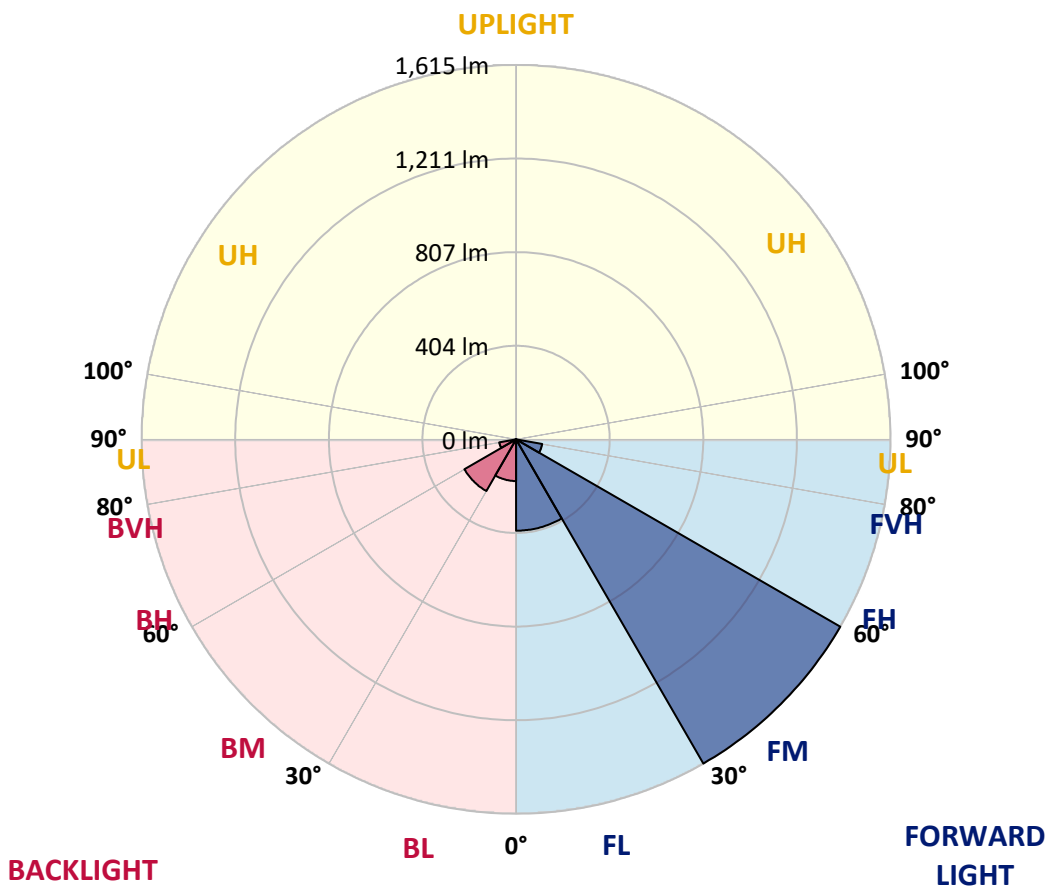
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	393.9	14.9			
FM (30°-60°)	1614.6	61.2			
FH (60°-80°)	114.3	4.3			G0/660
FVH (80°-90°)	2.1	0.1			G0/10
BL (0°-30°)	179.7	6.8	B1/500		
BM (30°-60°)	257.3	9.7	B1/1000		
BH (60°-80°)	73.7	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°	785.8	785.8	785.8	785.8	785.8	785.8	785.8	785.8	785.8	785.8	785.8
2.5°	875.6	880.6	872.9	870.0	865.2	856.9	847.3	844.6	823.9	810.4	795.1
5°	963.6	966.4	960.1	953.8	942.0	927.1	908.6	904.6	867.1	836.0	803.7
7.5°	983.2	982.2	987.6	991.2	989.7	983.9	967.4	959.7	914.8	865.6	817.9
10°	905.7	899.8	919.9	943.6	972.2	1005.1	1003.3	1002.6	963.6	905.5	836.0
12.5°	802.9	799.9	816.2	846.0	900.0	973.0	1000.3	1021.6	1007.6	943.4	856.2
15°	744.1	743.0	754.1	775.5	818.5	910.7	969.1	1011.2	1045.4	984.1	877.7
17.5°	733.4	734.0	737.8	750.1	781.0	856.9	924.4	983.2	1074.8	1028.7	904.6
20°	764.5	768.7	762.2	764.1	780.8	837.5	894.0	955.1	1093.6	1073.5	933.6
22.5°	833.5	832.1	817.9	809.5	809.7	849.4	890.7	942.0	1105.9	1117.1	959.9
25°	911.7	910.0	893.2	874.6	862.9	881.7	914.6	955.9	1116.9	1157.0	981.0
27.5°	1004.1	998.9	980.1	956.3	930.5	938.6	960.9	993.7	1134.0	1196.2	994.9
30°	1093.6	1099.6	1072.7	1044.6	1017.2	1012.2	1025.2	1054.8	1168.8	1242.0	1011.6
32.5°	1212.2	1210.1	1180.3	1143.6	1104.6	1100.9	1111.1	1138.2	1231.4	1305.4	1037.0
35°	1355.9	1356.3	1314.0	1264.4	1208.9	1198.9	1216.0	1242.2	1324.6	1391.3	1077.3
37.5°	1505.2	1504.6	1467.7	1411.4	1335.7	1321.5	1341.1	1360.7	1441.2	1508.3	1139.9
40°	1609.9	1614.1	1596.8	1567.1	1495.4	1460.8	1478.1	1491.7	1568.0	1646.0	1222.2
42.5°	1669.3	1675.6	1679.3	1697.1	1659.3	1622.4	1616.2	1623.2	1681.2	1773.8	1299.6
45°	1682.0	1690.4	1717.7	1783.4	1798.0	1787.6	1767.1	1750.0	1765.7	1864.5	1350.3
47.5°	1626.0	1640.5	1698.9	1813.8	1899.1	1931.9	1909.1	1883.1	1814.5	1887.9	1345.1
50°	1403.7	1420.8	1552.3	1751.7	1913.5	2032.8	2034.9	1996.3	1808.6	1820.5	1279.6
52.5°	1111.3	1123.0	1198.2	1485.0	1772.3	2028.6	2112.0	2070.8	1780.5	1736.3	1197.6
55°	664.2	683.0	753.2	979.7	1380.7	1798.0	1975.7	1995.7	1766.7	1665.6	1141.7
57.5°	224.2	233.4	300.5	432.7	813.7	1316.5	1526.5	1607.8	1603.8	1557.6	1032.7
60°	106.8	108.9	122.4	164.1	325.7	688.0	903.6	997.4	1082.9	1091.5	642.5
62.5°	81.3	82.6	89.5	98.4	131.0	289.9	414.2	485.9	519.0	445.4	234.0
65°	68.0	69.0	74.2	79.9	89.0	125.5	158.9	183.3	165.2	128.7	111.6
67.5°	56.7	57.6	61.5	67.6	73.8	84.0	88.2	90.7	95.1	106.8	102.6
70°	44.4	45.3	49.4	54.6	60.7	63.2	67.1	69.7	78.4	93.4	93.0
72.5°	34.2	35.2	37.5	40.9	45.9	48.4	52.8	55.7	60.7	72.8	77.8
75°	25.0	25.6	27.7	28.8	29.4	28.8	33.2	36.5	43.2	47.8	49.0
77.5°	10.2	11.5	11.1	11.1	13.1	15.8	18.1	20.2	24.8	27.5	27.7
80°	4.2	4.6	5.4	6.0	7.3	9.4	10.8	11.7	13.8	15.4	16.7
82.5°	2.5	2.7	3.1	3.3	4.2	5.4	6.3	6.9	8.5	10.2	10.8
85°	1.3	1.3	1.5	1.7	2.1	2.5	2.9	3.3	4.4	5.4	6.0
87.5°	0.2	0.2	0.2	0.4	0.6	0.8	1.0	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°	785.8	785.8	785.8	785.8	785.8	785.8	785.8	785.8	785.8	785.8	785.8
2.5°	786.2	774.9	761.8	751.4	739.3	730.3	717.6	709.6	702.1	695.9	691.3
5°	787.0	768.0	740.7	716.5	691.5	667.7	643.3	623.5	605.8	591.0	589.7
7.5°	791.8	764.5	721.7	679.4	630.6	583.5	536.4	498.0	468.8	453.6	450.4
10°	799.9	764.1	702.3	634.8	551.6	475.7	419.8	390.6	373.7	367.6	365.6
12.5°	808.5	763.0	677.5	571.8	456.3	389.8	359.1	355.6	358.7	359.1	358.9
15°	818.9	762.4	646.3	498.0	386.6	349.9	352.0	359.5	366.8	368.5	368.5
17.5°	831.6	760.9	603.7	425.8	343.0	342.2	353.3	363.3	370.2	371.4	371.4
20°	845.0	757.2	551.4	367.0	325.3	337.4	349.3	357.0	361.8	363.5	363.7
22.5°	854.2	747.2	491.1	323.4	314.3	328.2	336.8	344.7	344.7	340.5	339.3
25°	856.0	725.7	425.8	293.6	301.1	314.1	322.8	318.2	309.7	306.3	306.1
27.5°	849.2	694.4	361.4	272.3	285.3	298.2	296.7	290.1	286.3	283.0	284.2
30°	840.8	656.9	305.5	254.8	266.9	279.6	274.6	272.3	269.6	265.9	266.7
32.5°	835.2	615.0	262.5	241.3	254.6	256.7	260.3	260.0	257.5	250.5	250.0
35°	836.9	572.6	233.8	230.2	244.4	243.6	250.2	249.0	231.7	221.9	221.3
37.5°	850.2	532.0	216.9	221.5	228.1	233.4	239.2	224.2	218.1	211.9	212.3
40°	875.6	494.2	207.7	216.7	218.3	226.1	212.5	212.3	209.6	203.9	203.7
42.5°	904.4	462.3	201.4	214.4	212.1	213.5	199.2	200.8	200.6	197.1	196.0
45°	921.9	432.9	196.4	205.8	206.5	191.9	187.5	189.4	190.4	188.5	188.3
47.5°	903.8	399.1	191.2	192.7	198.1	182.1	176.6	176.8	178.7	178.9	178.1
50°	852.9	361.4	185.0	181.4	177.9	171.8	166.8	165.8	167.7	169.5	170.2
52.5°	787.2	325.3	174.5	169.1	160.8	160.8	158.5	155.2	157.7	160.2	161.0
55°	739.1	298.6	159.7	153.7	144.5	147.6	147.2	144.3	147.6	149.5	150.1
57.5°	640.4	240.0	140.6	138.7	131.0	134.7	135.5	131.8	130.1	130.5	131.2
60°	380.2	154.9	126.8	126.6	119.7	124.1	126.6	122.8	117.8	118.4	119.3
62.5°	170.6	118.4	109.5	108.6	108.4	114.1	116.8	113.2	106.1	106.8	107.6
65°	107.4	102.4	95.1	95.1	98.4	103.2	105.3	102.4	94.3	93.2	94.0
67.5°	99.7	95.3	87.8	86.3	88.0	92.0	92.2	86.5	81.7	80.9	80.9
70°	89.5	86.1	78.8	75.9	75.3	75.1	74.4	73.0	69.9	69.0	69.4
72.5°	74.0	71.7	67.1	64.0	62.4	62.1	59.6	58.4	55.7	55.3	55.1
75°	49.0	49.6	49.6	49.2	47.8	47.1	44.4	43.2	40.0	38.8	38.6
77.5°	29.0	29.6	30.4	30.7	30.4	30.4	27.9	26.5	23.4	21.7	21.3
80°	17.7	18.1	18.6	19.2	18.4	17.7	15.4	14.0	12.5	11.5	11.3
82.5°	11.5	11.9	12.1	12.5	12.1	11.3	9.4	8.5	7.5	6.7	6.5
85°	6.5	6.7	7.1	7.1	6.5	5.8	4.8	4.2	3.5	3.1	3.1
87.5°	2.3	2.3	2.3	2.5	2.1	1.9	1.3	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)