

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: P628785

Luminaire Tested: GWS-SA1A-735-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628785
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2544.5 lumens
Efficiency: N/A
Efficacy: 129.2 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

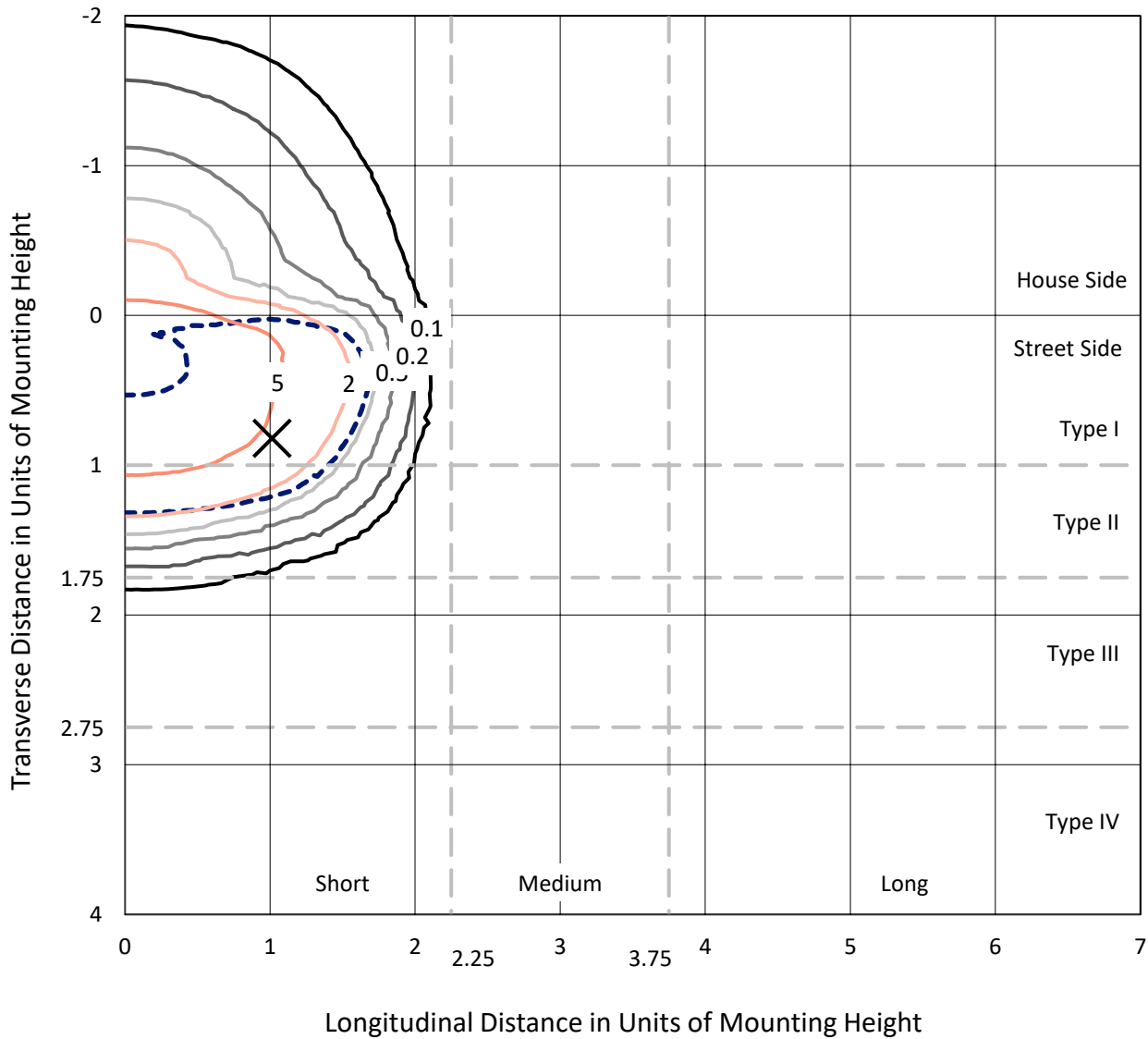
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P628785
 CATALOG NUMBER: GWS-SA1A-735-U-AFL-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

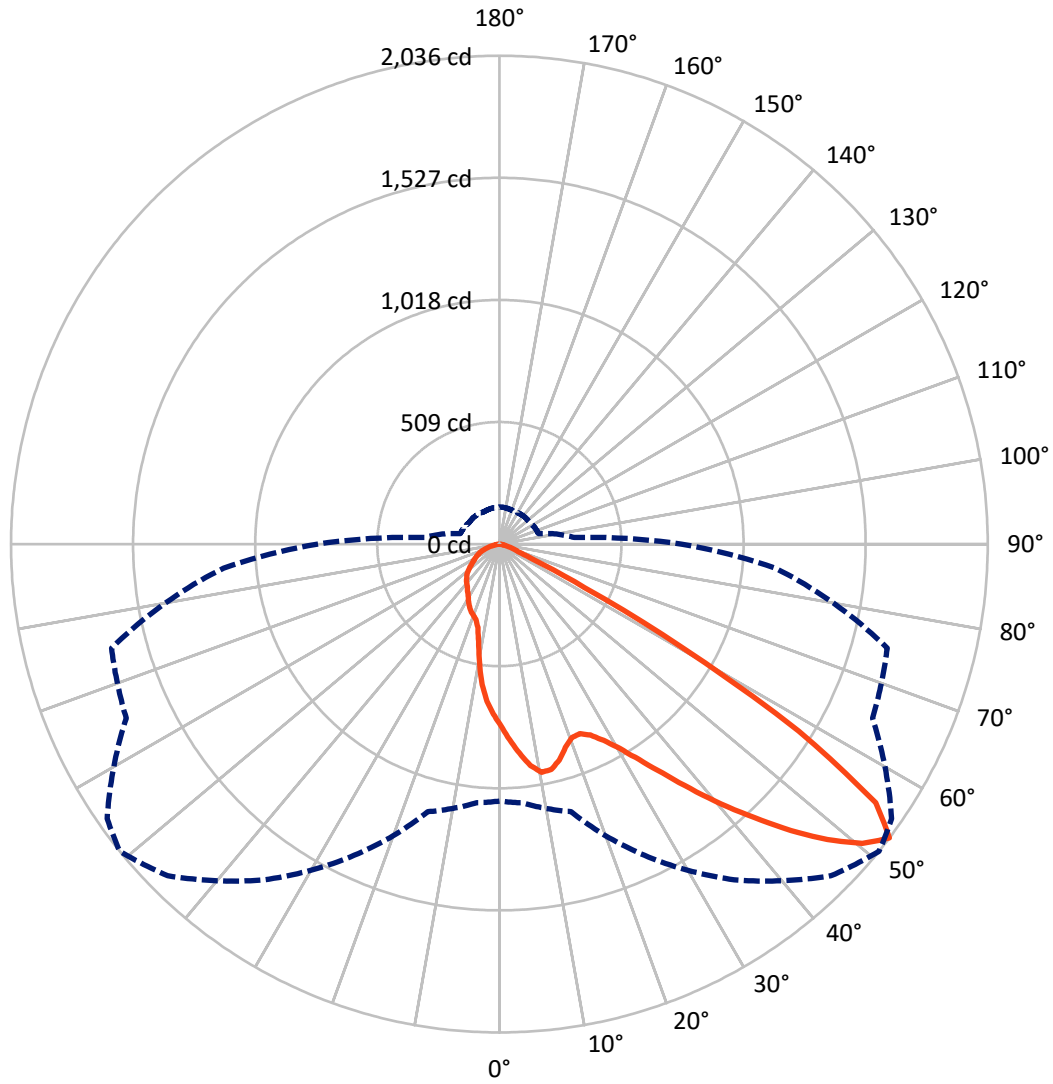
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - N/A

REPORT NUMBER: P628785
CATALOG NUMBER: GWS-SA1A-735-U-AFL-W-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P628785

CATALOG NUMBER: GWS-SA1A-735-U-AFL-W-GRSWH

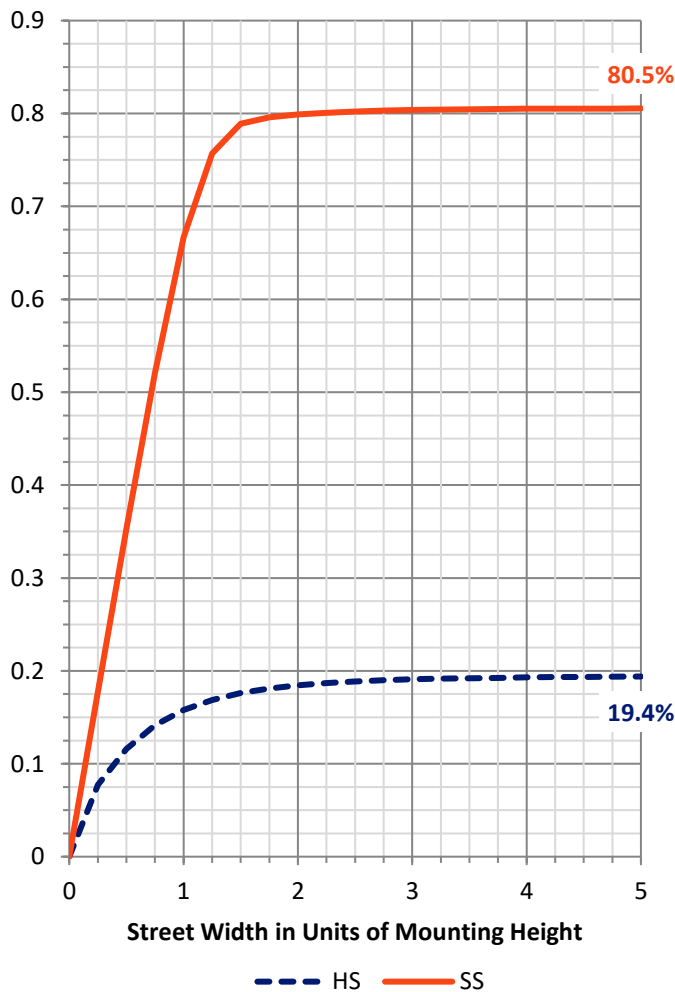
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	495.8	0.0	495.8
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	2048.7	0.0	2048.7
	% Fixture	80.5	0.0	80.5
Total	Lumens	2544.5	0.0	2544.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.7	2.8
10°-20°	183.7	7.2
20°-30°	298.7	11.7
30°-40°	473.3	18.6
40°-50°	713.9	28.1
50°-60°	617.6	24.3
60°-70°	140.0	5.5
70°-80°	41.3	1.6
80°-90°	5.3	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°	2544.5	100.0
0°-180°	2544.5	100.0

Coefficient of Utilization



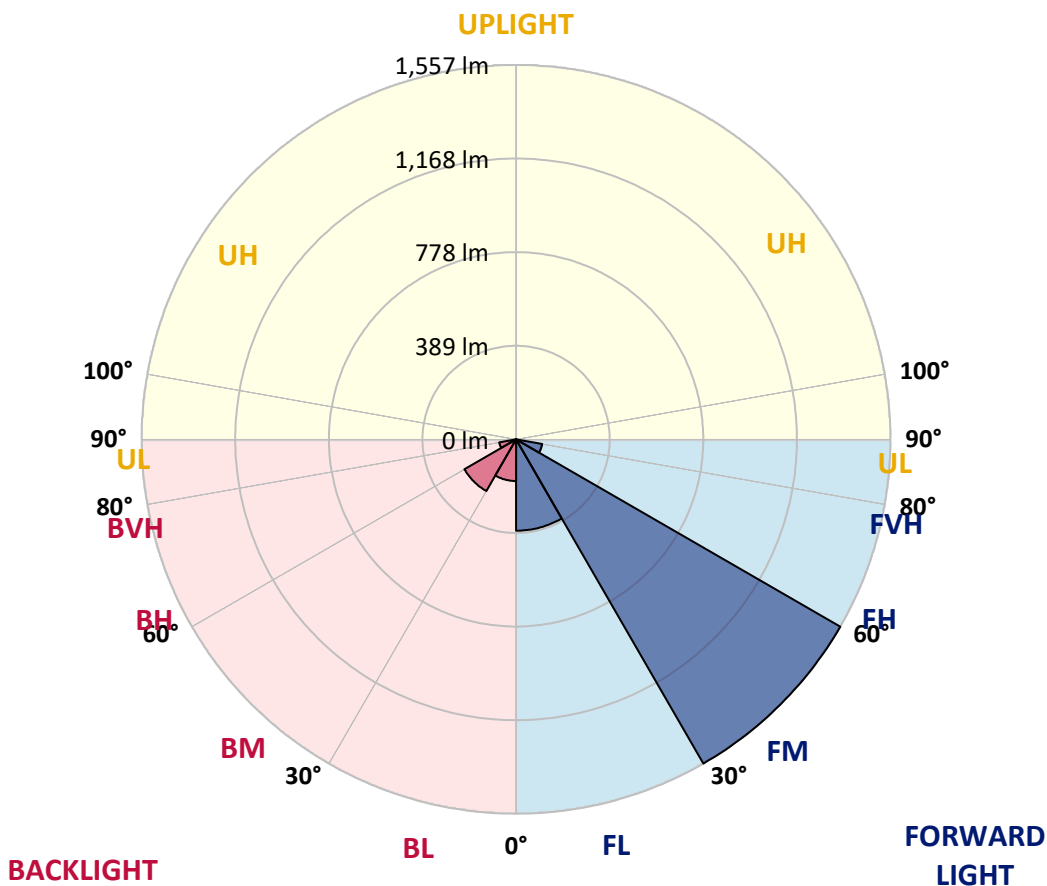
REPORT NUMBER: P628785

CATALOG NUMBER: GWS-SA1A-735-U-AFL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	379.8	14.9			
FM (30°-60°)	1556.8	61.2			
FH (60°-80°)	110.2	4.3			G0/660
FVH (80°-90°)	2.0	0.1			G0/10
BL (0°-30°)	173.3	6.8	B1/500		
BM (30°-60°)	248.1	9.7	B1/1000		
BH (60°-80°)	71.1	2.8	B0/110		G0/110
BVH (80°-90°)	3.3	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





REPORT NUMBER: P628785

CATALOG NUMBER: GWS-SA1A-735-U-AFL-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6
2.5°	844.3	849.1	841.7	838.9	834.2	826.2	816.9	814.3	794.4	781.4	766.7
5°	929.1	931.7	925.7	919.7	908.2	893.9	876.1	872.2	836.0	806.1	774.9
7.5°	948.0	947.0	952.3	955.7	954.3	948.6	932.8	925.3	882.1	834.6	788.6
10°	873.2	867.6	886.9	909.8	937.4	969.1	967.3	966.7	929.1	873.0	806.1
12.5°	774.1	771.3	787.0	815.7	867.8	938.2	964.5	985.0	971.6	909.6	825.6
15°	717.4	716.4	727.1	747.8	789.2	878.1	934.4	975.0	1008.0	948.8	846.3
17.5°	707.2	707.8	711.4	723.2	753.0	826.2	891.3	948.0	1036.3	991.9	872.2
20°	737.1	741.1	734.9	736.7	752.8	807.5	862.0	920.9	1054.4	1035.1	900.2
22.5°	803.7	802.3	788.6	780.5	780.7	819.0	858.8	908.2	1066.3	1077.1	925.5
25°	879.1	877.5	861.2	843.3	832.0	850.1	881.9	921.7	1076.9	1115.5	945.8
27.5°	968.1	963.1	945.0	922.1	897.2	905.0	926.5	958.1	1093.4	1153.3	959.3
30°	1054.4	1060.2	1034.3	1007.2	980.8	976.0	988.5	1017.0	1127.0	1197.6	975.4
32.5°	1168.8	1166.8	1138.0	1102.7	1065.1	1061.4	1071.3	1097.4	1187.3	1258.7	999.9
35°	1307.3	1307.7	1266.9	1219.1	1165.6	1155.9	1172.4	1197.8	1277.2	1341.5	1038.7
37.5°	1451.3	1450.7	1415.1	1360.8	1287.8	1274.2	1293.1	1312.0	1389.6	1454.3	1099.0
40°	1552.2	1556.3	1539.6	1511.0	1441.9	1408.5	1425.2	1438.2	1511.8	1587.0	1178.5
42.5°	1609.6	1615.6	1619.2	1636.3	1599.9	1564.3	1558.3	1565.1	1621.0	1710.3	1253.1
45°	1621.8	1629.9	1656.2	1719.5	1733.6	1723.6	1703.9	1687.4	1702.4	1797.7	1301.9
47.5°	1567.7	1581.8	1638.1	1748.9	1831.1	1862.7	1840.8	1815.6	1749.5	1820.3	1296.9
50°	1353.4	1369.9	1496.8	1689.0	1845.0	1960.0	1962.0	1924.8	1743.9	1755.3	1233.8
52.5°	1071.5	1082.8	1155.3	1431.8	1708.9	1956.0	2036.4	1996.6	1716.7	1674.1	1154.7
55°	640.4	658.5	726.3	944.6	1331.3	1733.6	1904.9	1924.2	1703.4	1605.9	1100.8
57.5°	216.1	225.0	289.7	417.2	784.6	1269.3	1471.8	1550.2	1546.4	1501.8	995.7
60°	102.9	105.0	118.0	158.2	314.1	663.3	871.2	961.7	1044.1	1052.4	619.5
62.5°	78.4	79.6	86.3	94.9	126.3	279.5	399.3	468.5	500.5	429.5	225.6
65°	65.5	66.6	71.6	77.0	85.9	121.0	153.2	176.7	159.2	124.1	107.6
67.5°	54.7	55.5	59.3	65.1	71.2	81.0	85.1	87.5	91.7	102.9	98.9
70°	42.8	43.6	47.7	52.7	58.5	60.9	64.7	67.2	75.6	90.1	89.7
72.5°	33.0	34.0	36.2	39.4	44.2	46.6	50.9	53.7	58.5	70.2	75.0
75°	24.1	24.7	26.7	27.7	28.4	27.7	32.0	35.2	41.6	46.0	47.3
77.5°	9.9	11.1	10.7	10.7	12.7	15.3	17.5	19.5	23.9	26.5	26.7
80°	4.0	4.4	5.2	5.8	7.0	9.0	10.5	11.3	13.3	14.9	16.1
82.5°	2.4	2.6	3.0	3.2	4.0	5.2	6.0	6.6	8.2	9.9	10.5
85°	1.2	1.2	1.4	1.6	2.0	2.4	2.8	3.2	4.2	5.2	5.8
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



REPORT NUMBER: P628785
 CATALOG NUMBER: GWS-SA1A-735-U-AFL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6
2.5°	758.0	747.2	734.5	724.4	712.8	704.1	691.9	684.2	677.0	671.0	666.5
5°	758.8	740.5	714.2	690.9	666.7	643.8	620.3	601.2	584.1	569.8	568.6
7.5°	763.5	737.1	695.9	655.1	608.0	562.6	517.1	480.2	452.0	437.3	434.3
10°	771.3	736.7	677.2	612.1	531.8	458.6	404.8	376.6	360.3	354.5	352.5
12.5°	779.5	735.7	653.3	551.3	439.9	375.8	346.2	342.8	345.8	346.2	346.0
15°	789.6	735.1	623.1	480.2	372.8	337.4	339.4	346.6	353.7	355.3	355.3
17.5°	801.9	733.7	582.1	410.6	330.8	330.0	340.6	350.3	356.9	358.1	358.1
20°	814.7	730.1	531.6	353.9	313.7	325.3	336.8	344.2	348.9	350.5	350.7
22.5°	823.6	720.4	473.5	311.9	303.0	316.5	324.7	332.4	332.4	328.3	327.1
25°	825.4	699.7	410.6	283.1	290.3	302.8	311.3	306.8	298.6	295.4	295.2
27.5°	818.7	669.6	348.5	262.6	275.1	287.5	286.1	279.7	276.1	272.8	274.1
30°	810.7	633.4	294.6	245.7	257.4	269.6	264.8	262.6	260.0	256.4	257.2
32.5°	805.3	592.9	253.1	232.6	245.5	247.5	250.9	250.7	248.3	241.5	241.1
35°	806.9	552.1	225.4	222.0	235.7	234.8	241.3	240.1	223.4	213.9	213.3
37.5°	819.8	512.9	209.1	213.5	220.0	225.0	230.6	216.1	210.3	204.3	204.7
40°	844.3	476.5	200.3	208.9	210.5	218.0	204.9	204.7	202.1	196.6	196.4
42.5°	872.0	445.8	194.2	206.7	204.5	205.9	192.0	193.6	193.4	190.0	189.0
45°	888.9	417.4	189.4	198.5	199.1	185.0	180.8	182.6	183.6	181.8	181.6
47.5°	871.4	384.8	184.4	185.8	191.0	175.5	170.3	170.5	172.3	172.5	171.7
50°	822.4	348.5	178.3	174.9	171.5	165.7	160.9	159.8	161.7	163.5	164.1
52.5°	759.0	313.7	168.3	163.1	155.0	155.0	152.8	149.6	152.0	154.4	155.2
55°	712.6	287.9	154.0	148.2	139.3	142.4	142.0	139.1	142.4	144.2	144.8
57.5°	617.5	231.4	135.5	133.7	126.3	129.9	130.7	127.1	125.5	125.9	126.5
60°	366.5	149.4	122.2	122.0	115.4	119.6	122.0	118.4	113.6	114.2	115.0
62.5°	164.5	114.2	105.6	104.8	104.6	110.0	112.6	109.2	102.3	102.9	103.8
65°	103.6	98.7	91.7	91.7	94.9	99.5	101.5	98.7	90.9	89.9	90.7
67.5°	96.1	91.9	84.6	83.2	84.9	88.7	88.9	83.4	78.8	78.0	78.0
70°	86.3	83.0	76.0	73.2	72.6	72.4	71.8	70.4	67.4	66.6	67.0
72.5°	71.4	69.2	64.7	61.7	60.1	59.9	57.5	56.3	53.7	53.3	53.1
75°	47.3	47.9	47.9	47.5	46.0	45.4	42.8	41.6	38.6	37.4	37.2
77.5°	27.9	28.6	29.4	29.6	29.4	29.4	26.9	25.5	22.5	20.9	20.5
80°	17.1	17.5	17.9	18.5	17.7	17.1	14.9	13.5	12.1	11.1	10.9
82.5°	11.1	11.5	11.7	12.1	11.7	10.9	9.0	8.2	7.2	6.4	6.2
85°	6.2	6.4	6.8	6.8	6.2	5.6	4.6	4.0	3.4	3.0	3.0
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)