

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: P628784

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628784
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-SA1A-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2112.4 lumens
Efficiency: N/A
Efficacy: 107.2 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

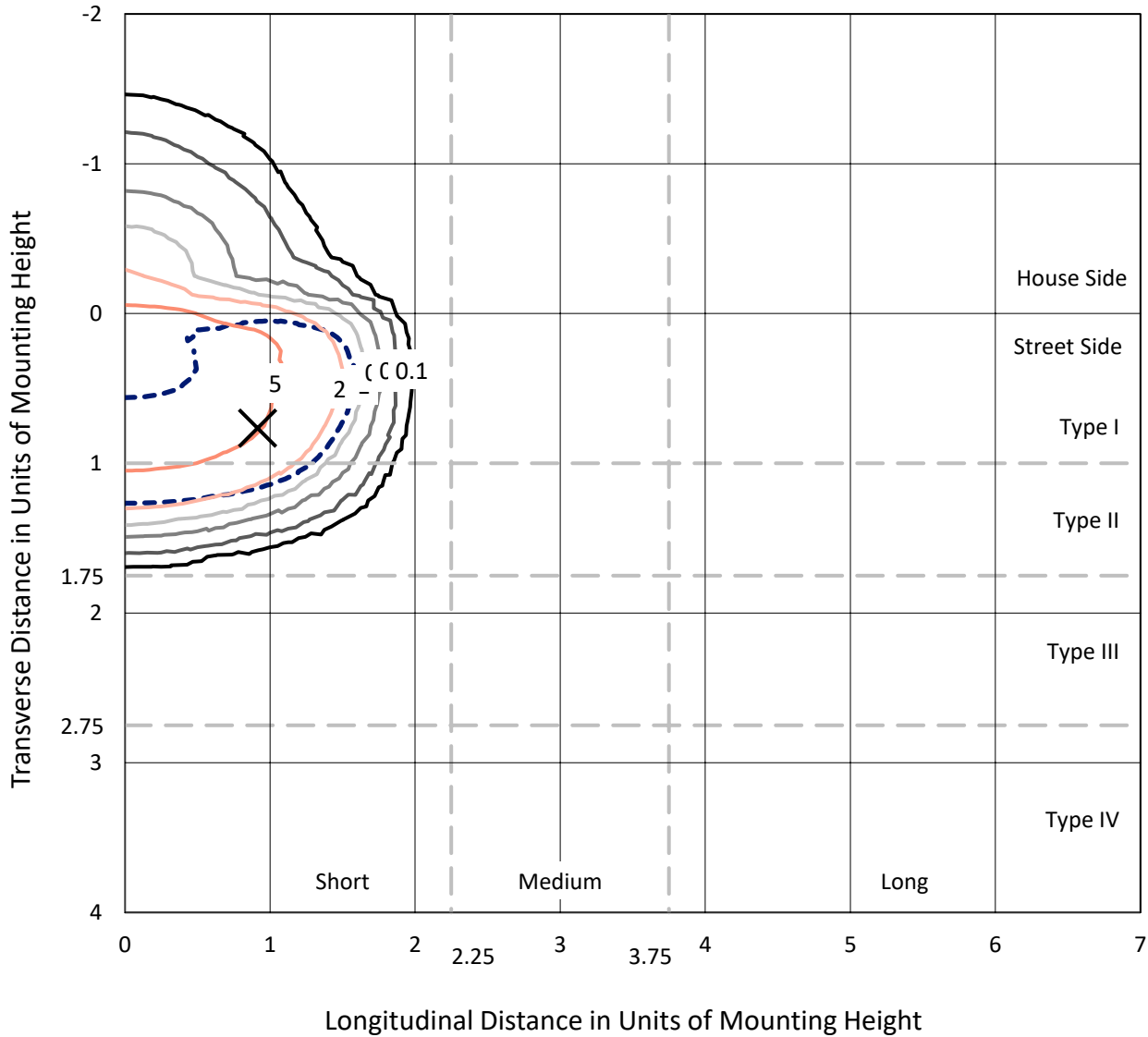
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

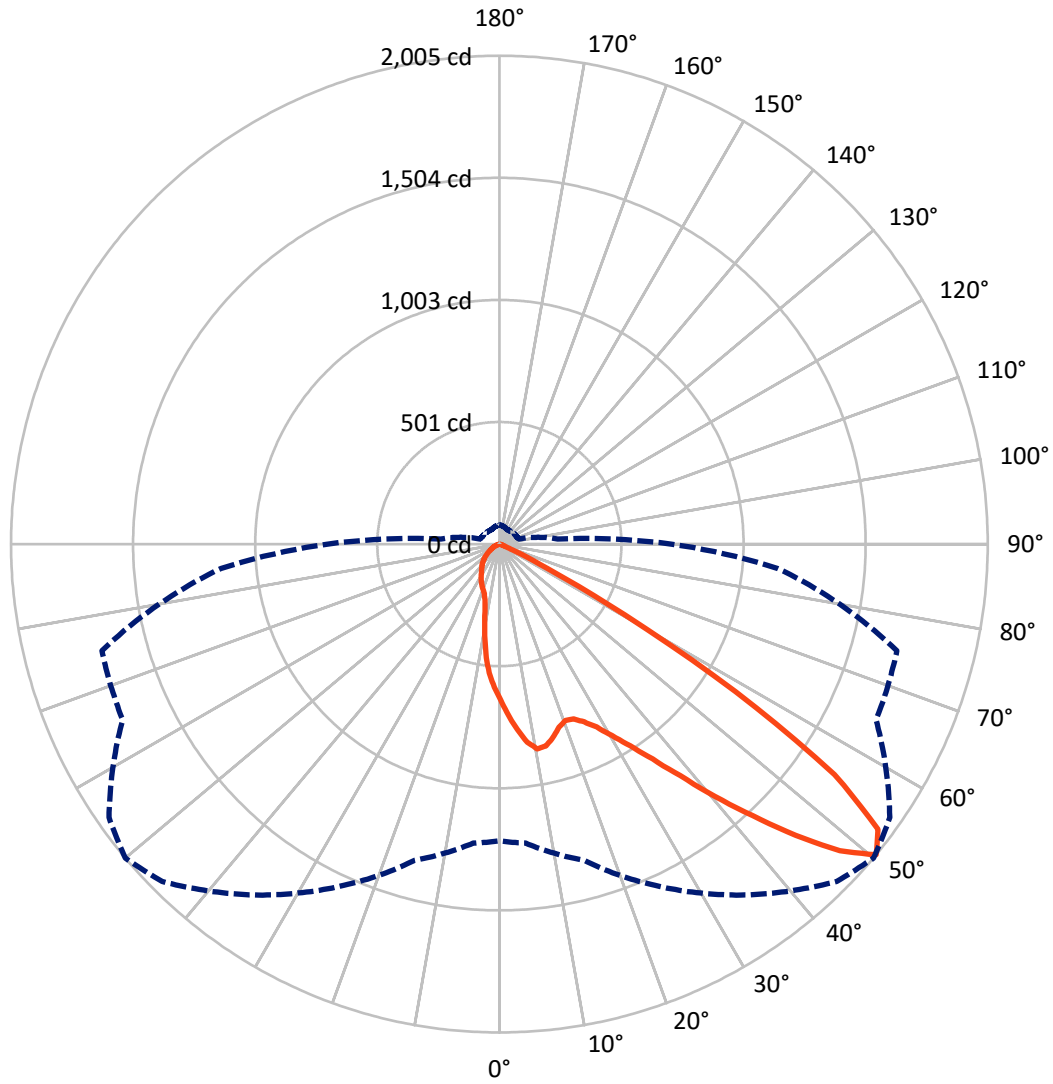
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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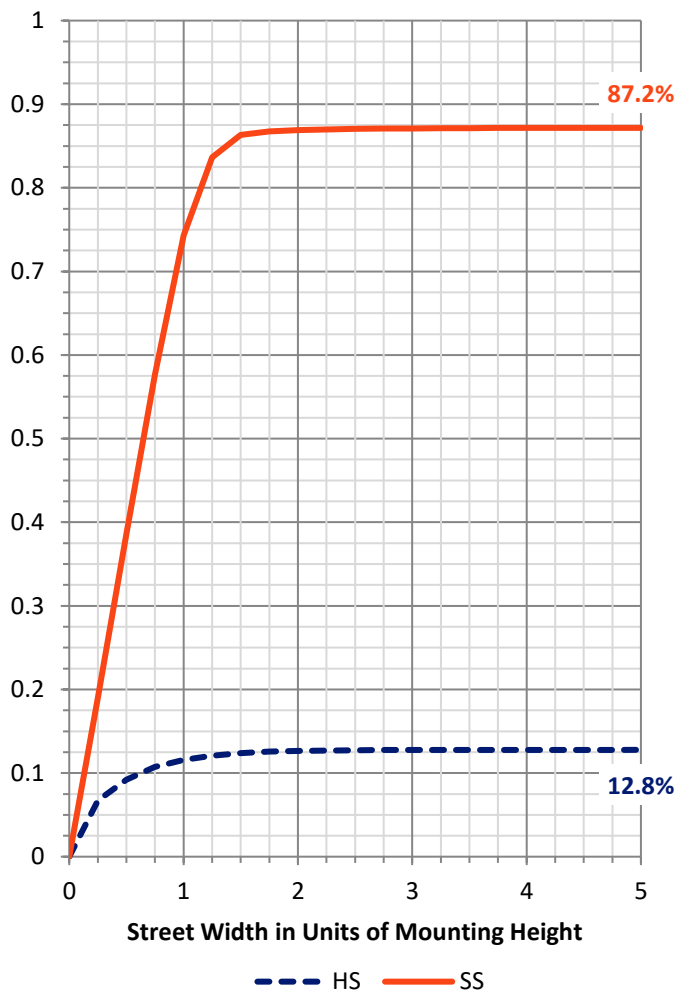
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	271.4	0.0	271.4
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	1841.0	0.0	1841.0
	% Fixture	87.2	0.0	87.2
Total	Lumens	2112.4	0.0	2112.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.4	2.8
10°-20°	153.2	7.3
20°-30°	252.8	12.0
30°-40°	417.2	19.7
40°-50°	660.0	31.2
50°-60°	499.7	23.7
60°-70°	62.5	3.0
70°-80°	7.1	0.3
80°-90°	0.5	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°	2112.4	100.0
0°-180°	2112.4	100.0

Coefficient of Utilization



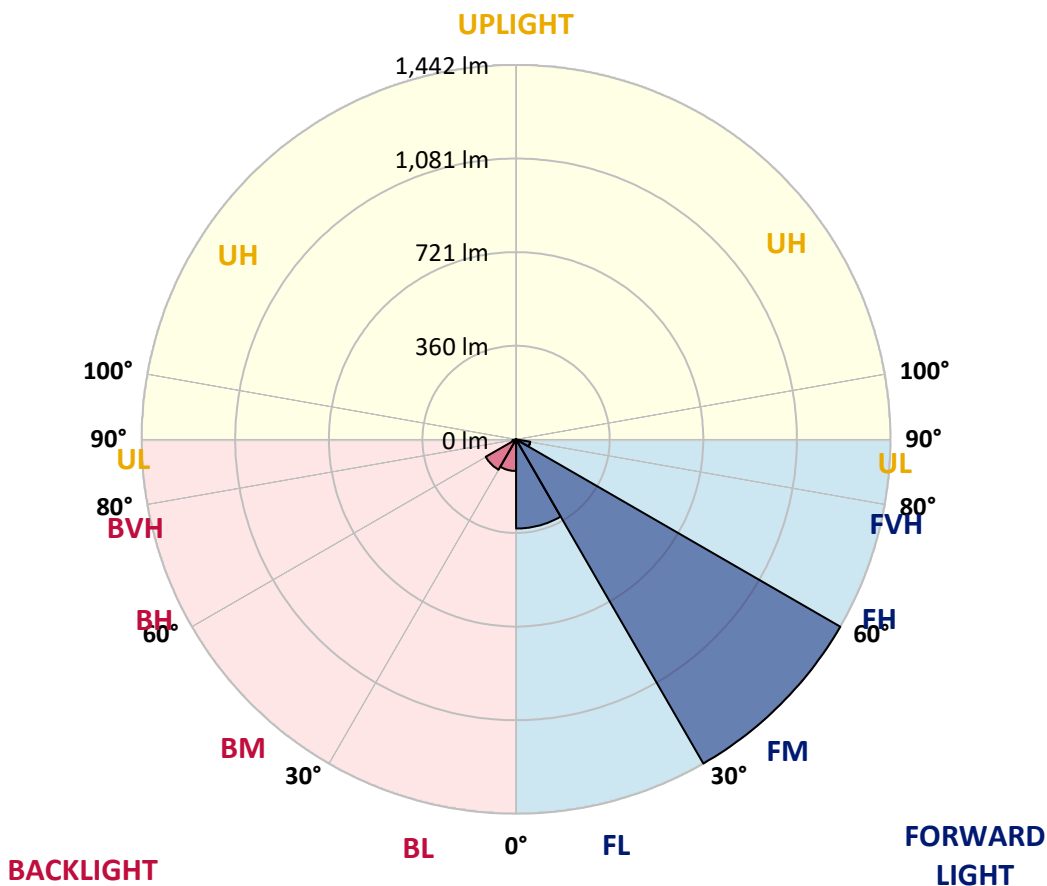
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	343.5	16.3			
FM (30°-60°)	1441.9	68.3			
FH (60°-80°)	55.3	2.6			G0/660
FVH (80°-90°)	0.3	0.0			G0/10
BL (0°-30°)	121.8	5.8	B1/500		
BM (30°-60°)	135.0	6.4	B0/220		
BH (60°-80°)	14.3	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°	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0
2.5°	729.2	735.1	733.5	725.8	717.6	711.8	702.7	699.9	679.4	665.1	650.0
5°	817.3	819.1	817.1	807.9	793.4	779.5	764.6	756.0	721.6	690.6	659.1
7.5°	838.4	836.2	840.0	844.7	842.6	836.6	820.9	811.5	770.5	720.0	672.1
10°	772.5	767.4	781.7	805.6	830.8	859.1	855.1	855.9	818.1	757.0	689.2
12.5°	685.0	683.0	693.7	721.4	770.7	835.0	850.5	876.4	861.7	797.0	708.7
15°	646.6	647.6	654.0	671.5	706.9	786.9	824.1	871.0	900.7	835.8	730.2
17.5°	652.4	656.1	655.9	661.7	683.2	747.3	790.8	853.9	930.9	880.4	755.0
20°	692.0	695.7	690.2	685.8	693.1	737.3	773.3	836.6	951.2	925.5	781.1
22.5°	751.4	755.6	742.7	730.0	725.4	753.8	779.9	829.6	966.7	966.7	804.4
25°	823.1	829.0	809.1	786.5	773.7	788.6	808.3	845.5	982.6	1003.7	820.3
27.5°	903.4	903.6	886.5	861.1	837.0	838.8	850.7	881.2	1000.1	1043.5	832.8
30°	993.6	994.2	971.5	941.2	910.8	902.6	912.6	935.7	1036.5	1093.6	850.1
32.5°	1110.3	1113.1	1080.5	1035.9	996.5	981.0	986.8	1011.1	1094.4	1156.3	876.0
35°	1267.9	1270.9	1222.8	1163.9	1101.2	1077.9	1083.7	1108.2	1178.2	1245.4	917.4
37.5°	1423.5	1427.5	1378.9	1324.0	1237.9	1199.3	1205.4	1228.7	1304.1	1368.4	983.8
40°	1531.1	1536.5	1521.4	1484.4	1404.6	1353.9	1361.2	1369.6	1442.6	1515.6	1069.8
42.5°	1587.8	1595.4	1601.8	1620.7	1578.7	1536.3	1524.0	1524.6	1583.5	1665.6	1159.3
45°	1591.2	1598.6	1631.6	1704.6	1736.6	1727.7	1705.4	1690.3	1691.1	1765.5	1215.2
47.5°	1480.6	1494.5	1556.2	1699.2	1819.4	1892.8	1881.5	1845.7	1736.4	1772.1	1209.2
50°	1218.6	1232.3	1344.5	1550.2	1759.1	1958.7	2005.2	1957.1	1706.8	1689.5	1147.0
52.5°	885.1	886.5	959.3	1199.5	1514.6	1837.1	1946.5	1941.8	1661.8	1589.4	1062.2
55°	420.4	415.4	497.2	677.0	1047.5	1485.8	1670.2	1722.5	1597.8	1517.0	996.5
57.5°	122.4	124.9	161.2	264.2	524.0	949.6	1143.8	1241.1	1311.5	1247.2	772.9
60°	54.9	55.1	61.3	80.4	174.5	441.7	591.3	711.8	784.1	726.6	383.4
62.5°	39.8	40.0	42.4	45.4	59.3	149.6	221.8	295.6	301.0	197.0	97.1
65°	33.2	33.2	33.6	33.6	35.6	53.5	67.4	86.9	73.2	54.3	38.0
67.5°	26.7	26.9	27.3	27.3	26.7	26.7	29.0	31.8	34.0	42.0	35.0
70°	20.9	20.7	20.7	20.9	20.3	17.3	18.7	21.3	23.3	32.8	30.4
72.5°	16.3	16.5	16.3	15.5	14.1	10.3	11.1	13.9	14.9	20.5	20.5
75°	12.3	12.5	11.7	8.8	5.8	3.2	4.2	6.8	8.6	10.1	7.4
77.5°	1.6	1.6	1.2	1.2	1.0	1.2	1.2	1.6	2.4	2.4	1.8
80°	0.2	0.2	0.2	0.4	0.6	0.8	0.8	0.8	0.8	1.0	1.0
82.5°	0.2	0.2	0.2	0.2	0.6	0.6	0.8	0.8	0.8	0.8	0.8
85°	0.0	0.0	0.0	0.2	0.4	0.6	0.6	0.8	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.2	0.4	0.6	0.6	0.6	0.8	0.8	0.8
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°	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0
2.5°	641.0	629.3	615.2	605.6	591.9	582.9	570.0	561.4	553.9	548.1	551.3
5°	641.2	622.7	593.9	569.4	542.7	518.1	491.8	471.1	452.4	443.9	448.6
7.5°	645.2	618.7	574.6	531.0	479.7	429.1	381.6	343.0	323.9	314.9	317.7
10°	653.0	616.9	553.1	480.7	397.5	328.3	282.3	256.2	245.5	239.9	240.9
12.5°	660.3	615.6	525.2	414.6	313.7	254.7	230.8	227.2	229.4	229.6	229.4
15°	670.1	613.4	490.6	346.6	250.9	220.2	220.8	226.0	231.2	232.8	232.4
17.5°	680.6	610.0	446.0	281.5	212.9	210.1	217.1	224.2	229.4	230.2	230.4
20°	691.4	603.0	395.1	229.8	195.2	202.5	210.3	215.5	219.4	220.6	221.0
22.5°	696.5	588.1	336.4	192.8	183.4	193.0	198.8	205.7	206.9	202.5	203.3
25°	693.9	563.0	279.1	167.9	171.5	181.2	189.8	186.4	181.4	178.1	179.1
27.5°	685.6	529.6	223.0	149.6	158.8	171.1	172.1	168.3	167.5	164.9	165.7
30°	676.8	491.2	179.3	134.9	146.0	158.8	155.8	157.2	157.4	154.4	155.4
32.5°	671.3	451.0	142.8	125.1	137.7	140.1	146.2	149.0	149.2	142.1	143.4
35°	673.1	411.4	120.8	117.0	130.1	129.5	137.9	139.5	127.9	118.2	119.2
37.5°	687.8	374.8	108.4	110.8	116.8	121.4	127.9	117.2	114.6	110.2	110.8
40°	715.2	343.6	100.9	107.0	107.8	115.2	105.4	106.8	107.0	104.1	104.8
42.5°	747.1	317.7	96.5	104.8	102.7	103.9	94.1	96.9	99.9	98.7	98.9
45°	763.2	292.3	92.7	97.1	97.7	86.3	84.0	87.1	90.9	91.5	91.7
47.5°	748.9	268.2	88.7	86.1	90.1	78.6	76.0	77.0	81.4	83.8	84.2
50°	705.3	240.5	82.6	76.2	74.0	70.6	68.2	68.4	73.4	77.6	78.4
52.5°	644.0	211.5	72.8	64.5	59.5	62.1	62.7	61.5	66.1	70.4	71.2
55°	584.5	175.3	57.7	52.5	47.9	53.5	55.1	53.5	54.9	57.7	57.9
57.5°	411.6	99.1	44.2	43.4	39.6	45.8	48.5	46.0	43.6	45.4	45.8
60°	190.8	51.9	34.0	34.0	33.0	39.4	43.8	40.4	35.8	36.6	37.2
62.5°	59.7	32.8	24.9	23.5	26.9	33.6	37.2	33.8	28.3	28.3	29.2
65°	33.8	28.1	19.7	18.1	21.9	26.9	29.2	25.5	20.7	20.3	20.3
67.5°	31.4	26.7	17.5	14.7	15.5	17.3	18.1	15.7	14.3	14.1	14.3
70°	25.9	22.3	14.1	10.1	9.4	9.2	9.7	9.0	8.6	8.8	9.4
72.5°	16.1	13.5	8.8	6.0	5.2	5.0	5.0	5.0	4.8	4.8	4.8
75°	5.8	5.0	4.0	3.0	2.6	2.4	2.4	2.6	2.4	2.2	2.0
77.5°	1.8	1.6	1.6	1.6	1.4	1.2	1.0	1.0	0.8	0.6	0.6
80°	1.0	1.0	1.0	1.0	0.8	0.8	0.6	0.4	0.2	0.2	0.0
82.5°	1.0	1.0	1.0	0.8	0.8	0.8	0.6	0.4	0.2	0.0	0.0
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.6	0.4	0.2	0.0	0.0
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.6	0.4	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)