

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: P629004

Luminaire Tested: GWS-SA1A-827-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629004
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-827-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) 2700K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1574.4 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

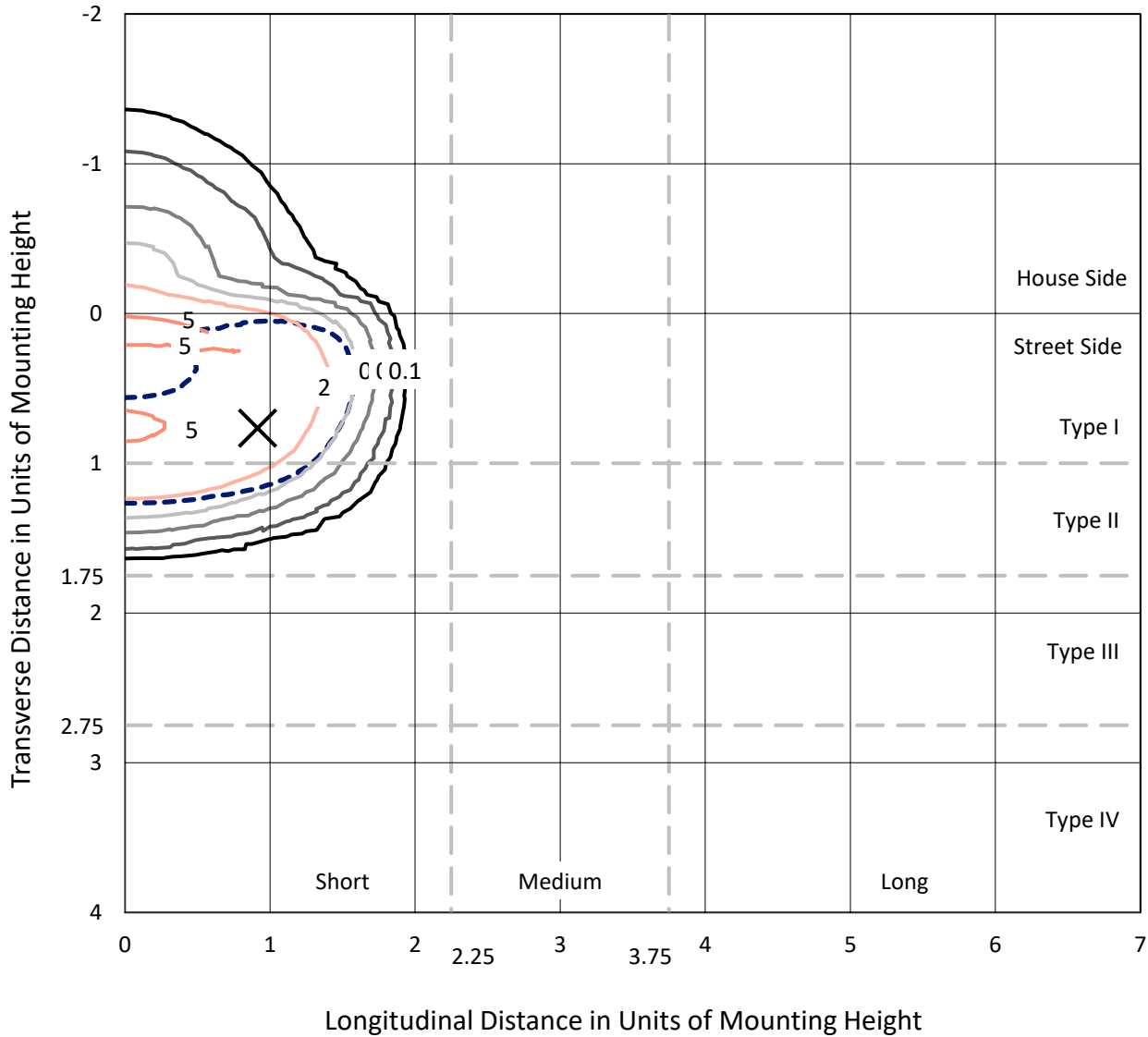
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

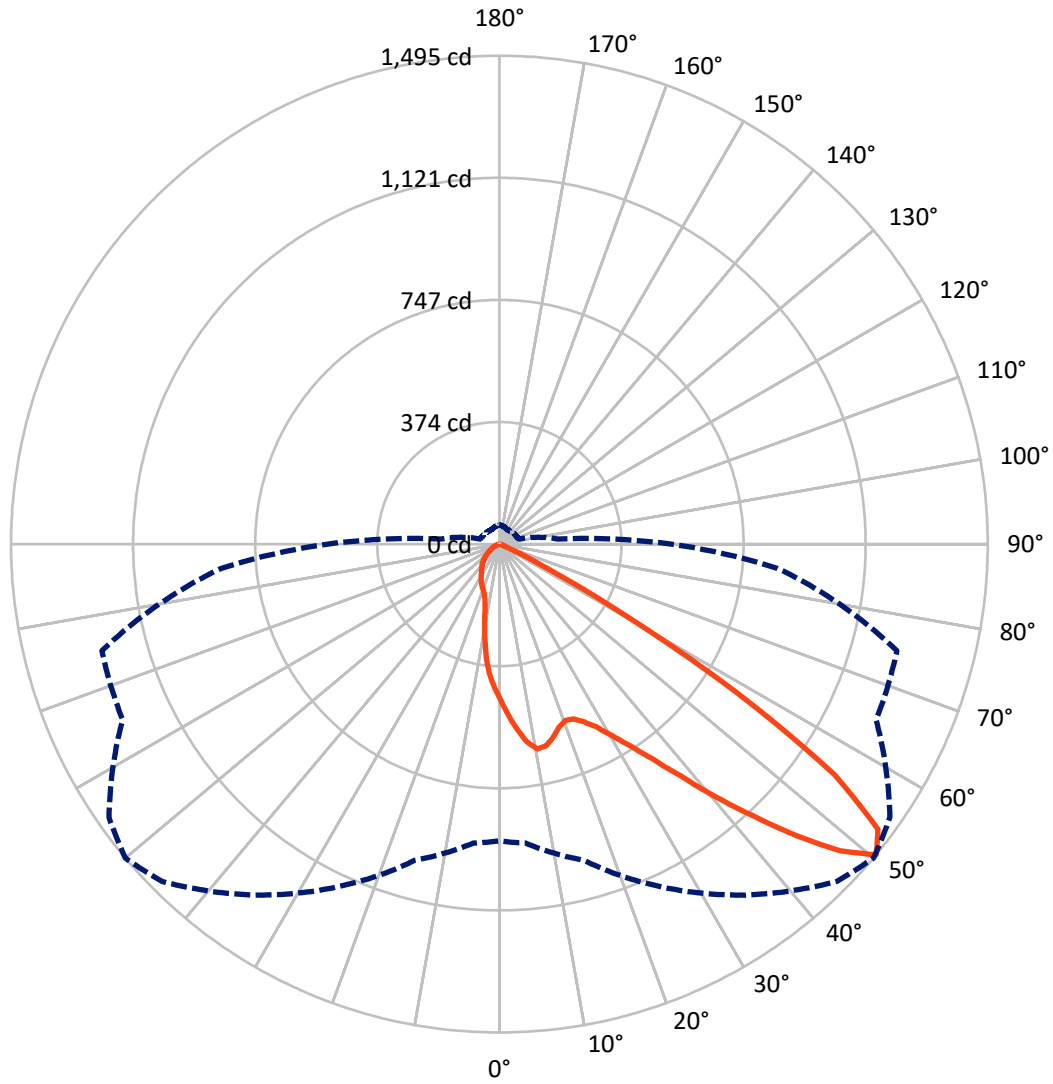
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.1 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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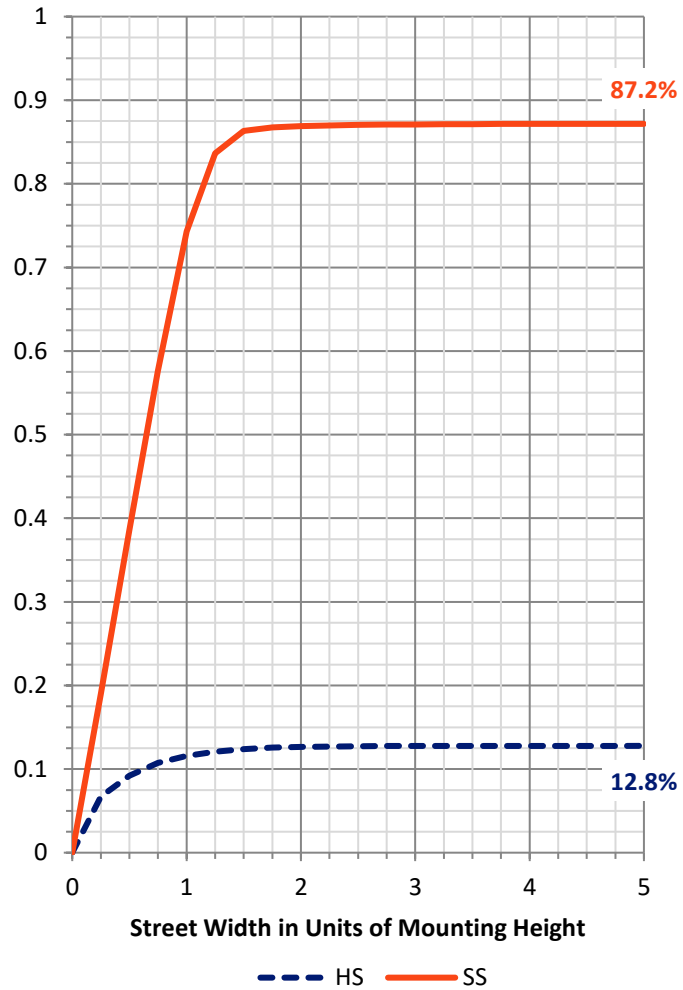
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	202.3	0.0	202.3
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	1372.1	0.0	1372.1
	% Fixture	87.2	0.0	87.2
Total	Lumens	1574.4	0.0	1574.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.2	2.8
10°-20°	114.2	7.3
20°-30°	188.4	12.0
30°-40°	310.9	19.7
40°-50°	491.9	31.2
50°-60°	372.5	23.7
60°-70°	46.6	3.0
70°-80°	5.3	0.3
80°-90°	0.4	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°	1574.4	100.0
0°-180°	1574.4	100.0

Coefficient of Utilization



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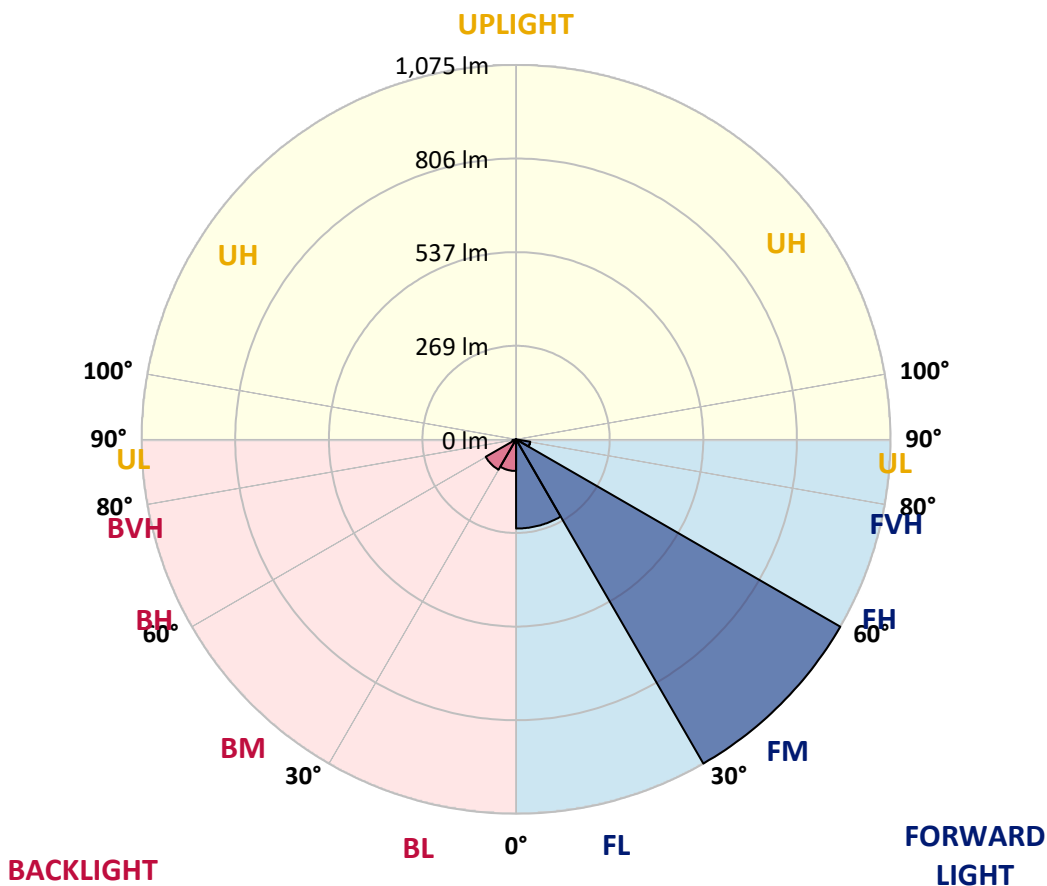
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	256.0	16.3			
FM (30°-60°)	1074.7	68.3			
FH (60°-80°)	41.2	2.6			G0/660
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	90.8	5.8	B0/110		
BM (30°-60°)	100.6	6.4	B0/220		
BH (60°-80°)	10.7	0.7	B0/110		G0/110
BVH (80°-90°)	0.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	477.0	477.0	477.0	477.0	477.0	477.0	477.0	477.0	477.0	477.0	477.0
2.5°	543.5	547.9	546.7	541.0	534.8	530.5	523.7	521.6	506.4	495.7	484.5
5°	609.2	610.5	609.0	602.1	591.3	581.0	569.9	563.4	537.8	514.7	491.2
7.5°	624.9	623.2	626.1	629.5	628.0	623.5	611.8	604.8	574.2	536.6	501.0
10°	575.7	572.0	582.6	600.5	619.2	640.3	637.3	637.9	609.7	564.2	513.7
12.5°	510.5	509.0	517.0	537.7	574.4	622.3	633.9	653.2	642.3	594.0	528.2
15°	481.9	482.7	487.5	500.5	526.9	586.5	614.2	649.2	671.3	622.9	544.3
17.5°	486.3	489.0	488.8	493.2	509.2	557.0	589.4	636.4	693.8	656.2	562.7
20°	515.8	518.5	514.4	511.1	516.5	549.5	576.3	623.5	709.0	689.8	582.2
22.5°	560.0	563.1	553.6	544.1	540.7	561.8	581.3	618.3	720.5	720.5	599.6
25°	613.5	617.8	603.0	586.2	576.6	587.7	602.4	630.1	732.3	748.1	611.4
27.5°	673.3	673.4	660.7	641.8	623.8	625.2	634.0	656.8	745.4	777.7	620.7
30°	740.6	741.0	724.1	701.5	678.8	672.7	680.2	697.4	772.5	815.0	633.6
32.5°	827.5	829.6	805.3	772.0	742.7	731.1	735.5	753.6	815.6	861.8	652.9
35°	945.0	947.2	911.4	867.5	820.7	803.4	807.7	826.0	878.1	928.2	683.8
37.5°	1061.0	1064.0	1027.7	986.8	922.6	893.9	898.4	915.7	971.9	1019.9	733.2
40°	1141.1	1145.2	1133.9	1106.4	1046.9	1009.1	1014.5	1020.8	1075.2	1129.6	797.4
42.5°	1183.4	1189.1	1193.9	1208.0	1176.6	1145.0	1135.9	1136.3	1180.2	1241.4	864.0
45°	1185.9	1191.5	1216.1	1270.4	1294.3	1287.7	1271.0	1259.8	1260.4	1315.9	905.7
47.5°	1103.5	1113.9	1159.9	1266.4	1356.0	1410.7	1402.3	1375.6	1294.1	1320.8	901.2
50°	908.3	918.4	1002.1	1155.4	1311.1	1459.9	1494.5	1458.7	1272.1	1259.2	854.9
52.5°	659.7	660.7	714.9	894.0	1128.8	1369.2	1450.7	1447.3	1238.5	1184.6	791.7
55°	313.3	309.6	370.6	504.6	780.7	1107.4	1244.8	1283.8	1190.9	1130.6	742.7
57.5°	91.3	93.1	120.2	196.9	390.5	707.8	852.5	925.0	977.5	929.5	576.0
60°	40.9	41.1	45.7	59.9	130.1	329.2	440.7	530.5	584.4	541.6	285.8
62.5°	29.7	29.8	31.6	33.9	44.2	111.5	165.3	220.3	224.3	146.9	72.4
65°	24.7	24.7	25.0	25.0	26.5	39.9	50.2	64.7	54.5	40.5	28.3
67.5°	19.9	20.1	20.4	20.4	19.9	19.9	21.6	23.7	25.3	31.3	26.1
70°	15.6	15.4	15.4	15.6	15.1	12.9	13.9	15.9	17.4	24.4	22.6
72.5°	12.1	12.3	12.1	11.5	10.5	7.6	8.2	10.3	11.1	15.3	15.3
75°	9.1	9.3	8.7	6.6	4.3	2.4	3.1	5.1	6.4	7.5	5.5
77.5°	1.2	1.2	0.9	0.9	0.7	0.9	0.9	1.2	1.8	1.8	1.3
80°	0.1	0.1	0.1	0.3	0.4	0.6	0.6	0.6	0.6	0.7	0.7
82.5°	0.1	0.1	0.1	0.1	0.4	0.4	0.6	0.6	0.6	0.6	0.6
85°	0.0	0.0	0.0	0.1	0.3	0.4	0.4	0.6	0.6	0.6	0.6
87.5°	0.0	0.0	0.0	0.1	0.3	0.4	0.4	0.4	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	477.0	477.0	477.0	477.0	477.0	477.0	477.0	477.0	477.0	477.0	477.0
2.5°	477.7	469.0	458.5	451.4	441.2	434.4	424.8	418.4	412.8	408.5	410.9
5°	477.9	464.1	442.7	424.4	404.5	386.2	366.5	351.1	337.2	330.9	334.3
7.5°	480.9	461.1	428.3	395.8	357.5	319.8	284.4	255.6	241.4	234.7	236.8
10°	486.7	459.7	412.2	358.3	296.3	244.7	210.4	190.9	183.0	178.8	179.5
12.5°	492.1	458.8	391.4	309.0	233.8	189.9	172.0	169.3	171.0	171.1	171.0
15°	499.5	457.2	365.6	258.3	187.0	164.1	164.5	168.4	172.3	173.5	173.2
17.5°	507.3	454.7	332.4	209.8	158.7	156.6	161.8	167.1	171.0	171.6	171.7
20°	515.3	449.4	294.5	171.3	145.5	150.9	156.7	160.6	163.5	164.4	164.7
22.5°	519.1	438.3	250.7	143.7	136.7	143.9	148.2	153.3	154.2	150.9	151.5
25°	517.1	419.6	208.0	125.1	127.8	135.0	141.5	138.9	135.2	132.8	133.5
27.5°	511.0	394.7	166.2	111.5	118.4	127.5	128.3	125.4	124.8	122.9	123.5
30°	504.4	366.1	133.7	100.6	108.8	118.4	116.1	117.2	117.3	115.1	115.8
32.5°	500.4	336.1	106.4	93.2	102.6	104.4	108.9	111.0	111.2	105.9	106.8
35°	501.7	306.6	90.1	87.2	97.0	96.5	102.8	104.0	95.3	88.1	88.9
37.5°	512.6	279.3	80.8	82.6	87.1	90.5	95.3	87.4	85.4	82.1	82.6
40°	533.0	256.1	75.2	79.7	80.3	85.9	78.5	79.6	79.7	77.6	78.1
42.5°	556.9	236.8	71.9	78.1	76.6	77.5	70.1	72.2	74.5	73.6	73.7
45°	568.8	217.9	69.1	72.4	72.8	64.3	62.6	64.9	67.7	68.2	68.3
47.5°	558.2	199.9	66.1	64.1	67.1	58.6	56.6	57.4	60.7	62.5	62.8
50°	525.7	179.2	61.6	56.8	55.1	52.6	50.8	50.9	54.7	57.8	58.4
52.5°	480.0	157.6	54.2	48.1	44.4	46.3	46.8	45.9	49.3	52.4	53.0
55°	435.6	130.7	43.0	39.1	35.7	39.9	41.1	39.9	40.9	43.0	43.2
57.5°	306.7	73.9	33.0	32.4	29.5	34.2	36.1	34.3	32.5	33.9	34.2
60°	142.2	38.7	25.3	25.3	24.6	29.4	32.7	30.1	26.7	27.3	27.7
62.5°	44.5	24.4	18.6	17.5	20.1	25.0	27.7	25.2	21.1	21.1	21.7
65°	25.2	21.0	14.7	13.5	16.3	20.1	21.7	19.0	15.4	15.1	15.1
67.5°	23.4	19.9	13.0	10.9	11.5	12.9	13.5	11.7	10.6	10.5	10.6
70°	19.3	16.6	10.5	7.5	7.0	6.9	7.2	6.7	6.4	6.6	7.0
72.5°	12.0	10.0	6.6	4.5	3.9	3.7	3.7	3.7	3.6	3.6	3.6
75°	4.3	3.7	3.0	2.2	1.9	1.8	1.8	1.9	1.8	1.6	1.5
77.5°	1.3	1.2	1.2	1.2	1.0	0.9	0.7	0.7	0.6	0.4	0.4
80°	0.7	0.7	0.7	0.7	0.6	0.6	0.4	0.3	0.1	0.1	0.0
82.5°	0.7	0.7	0.7	0.6	0.6	0.6	0.4	0.3	0.1	0.0	0.0
85°	0.6	0.6	0.6	0.6	0.6	0.6	0.4	0.3	0.1	0.0	0.0
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.4	0.3	0.1	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)