

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: P629570

Luminaire Tested: GWS-SA1B-830-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629570
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1B-830-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2734.3 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

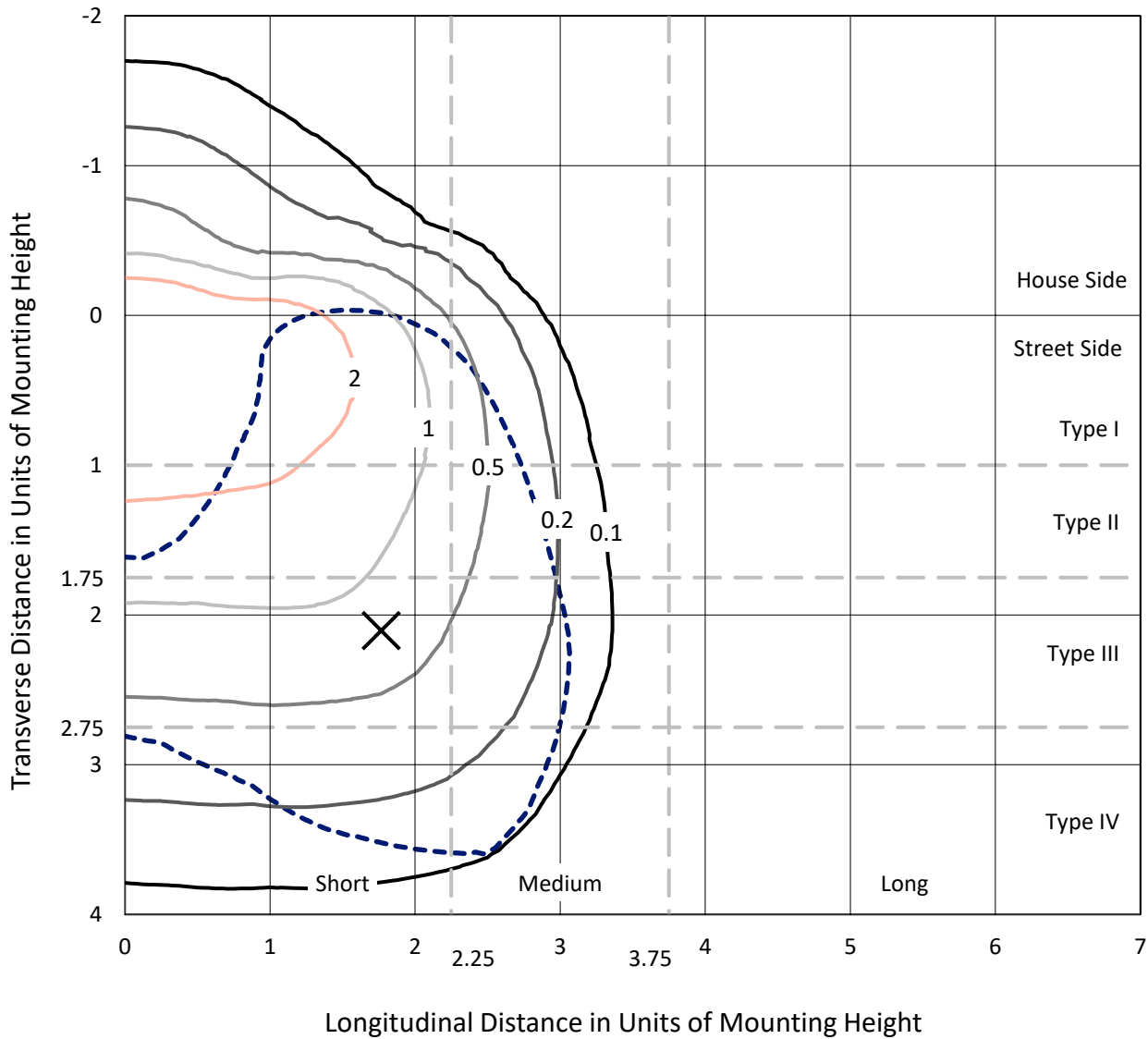
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

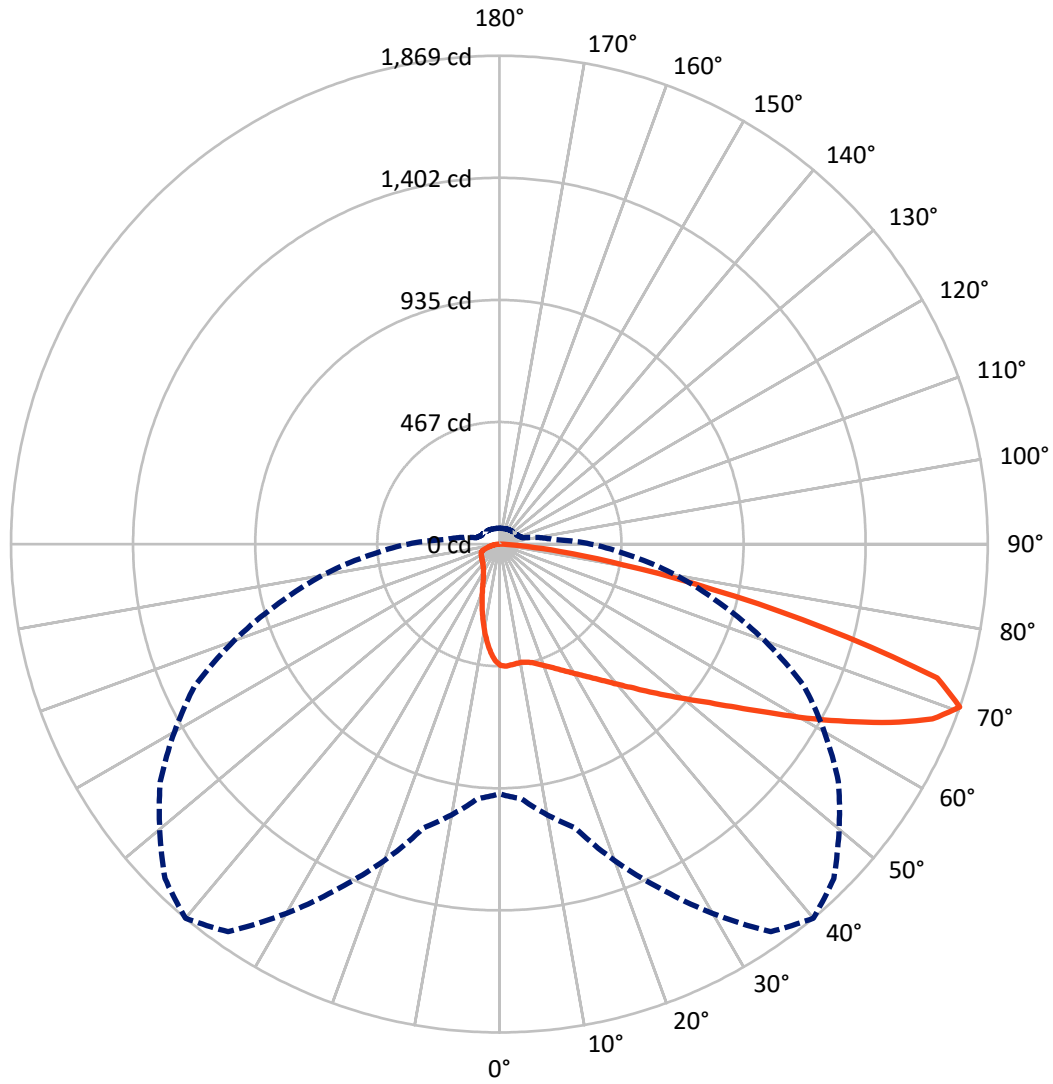
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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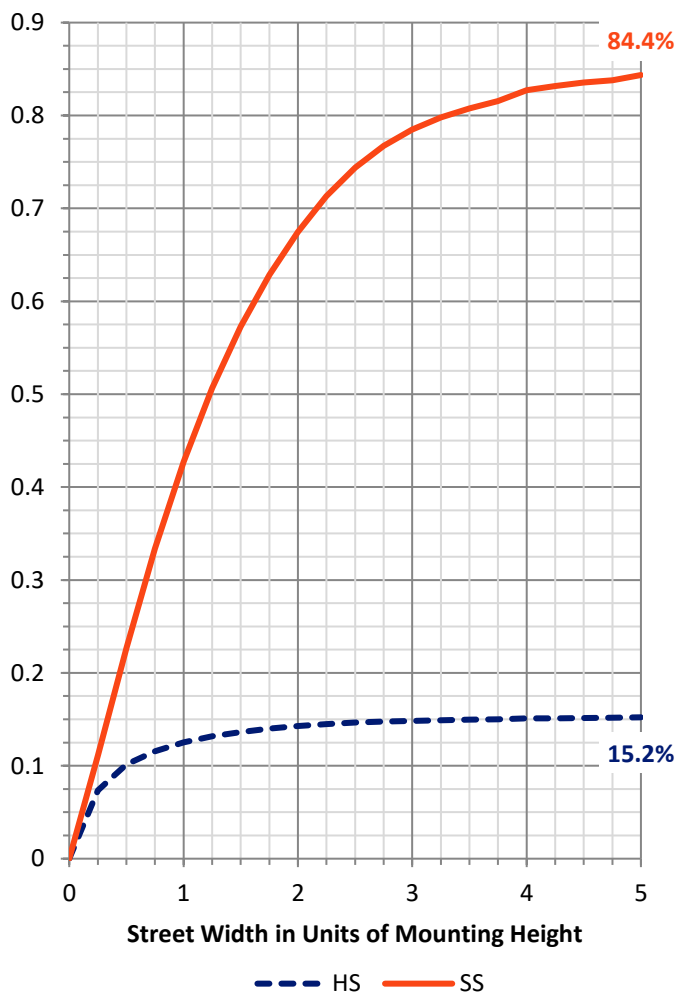
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	421.1	0.0	421.1
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	2313.1	0.0	2313.1
	% Fixture	84.6	0.0	84.6
Total	Lumens	2734.3	0.0	2734.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.0	1.5
10°-20°	106.9	3.9
20°-30°	167.9	6.1
30°-40°	252.4	9.2
40°-50°	389.6	14.2
50°-60°	578.6	21.2
60°-70°	729.3	26.7
70°-80°	421.8	15.4
80°-90°	46.8	1.7
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°	2734.3	100.0
0°-180°	2734.3	100.0

Coefficient of Utilization



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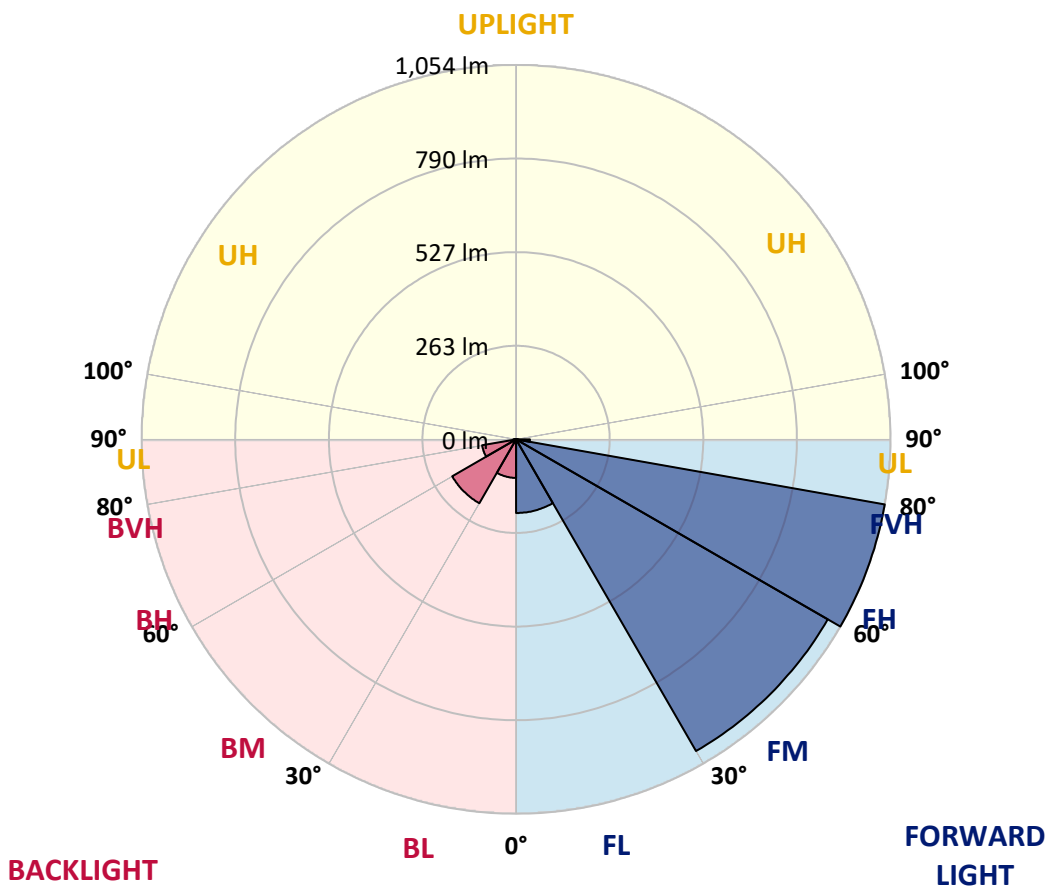
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	207.3	7.6			
FM (30°-60°)	1013.0	37.0			
FH (60°-80°)	1053.9	38.5			G1/1800
FVH (80°-90°)	39.0	1.4			G1/100
BL (0°-30°)	108.5	4.0	B0/110		
BM (30°-60°)	207.6	7.6	B0/220		
BH (60°-80°)	97.2	3.6	B0/110		G0/110
BVH (80°-90°)	7.8	0.3			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	464.3	464.3	464.3	464.3	464.3	464.3	464.3	464.3	464.3	464.3	464.3
2.5°	467.2	468.0	468.6	469.4	469.0	467.8	468.8	468.8	466.6	464.1	461.9
5°	467.8	468.8	468.6	468.4	466.8	464.7	464.7	463.5	459.6	455.7	452.1
7.5°	466.6	466.4	466.2	465.5	463.7	461.5	461.0	458.6	453.5	448.2	442.9
10°	461.0	460.8	461.5	462.9	462.5	460.4	460.4	458.2	452.3	445.7	438.8
12.5°	456.6	456.6	459.0	462.9	464.3	463.5	463.7	462.1	455.3	447.6	439.4
15°	457.2	457.4	462.7	469.0	471.7	471.1	471.3	469.4	461.9	454.1	443.1
17.5°	461.3	462.3	471.5	480.2	483.7	482.9	481.5	478.4	469.8	461.0	447.6
20°	469.8	471.5	483.3	494.3	498.4	496.6	494.1	488.0	478.6	469.0	452.5
22.5°	486.8	487.8	500.8	511.7	514.9	512.7	507.8	499.0	488.2	478.2	458.4
25°	510.6	511.9	524.3	534.3	533.5	530.9	524.1	513.3	500.4	489.8	467.0
27.5°	539.0	541.1	553.3	561.3	556.0	552.1	544.5	531.5	517.0	507.4	480.0
30°	570.0	570.9	581.3	589.2	581.1	575.8	566.6	552.5	539.4	532.3	499.6
32.5°	600.0	600.9	609.8	614.3	605.8	601.9	593.9	579.0	569.8	566.0	528.8
35°	631.7	631.5	638.8	642.7	633.9	632.3	624.1	612.7	611.1	616.2	571.5
37.5°	663.3	661.5	665.3	670.5	665.6	667.2	661.9	658.0	664.3	677.6	628.2
40°	688.6	688.6	692.7	699.0	700.7	707.8	704.7	709.8	730.3	761.9	698.4
42.5°	711.1	711.3	719.8	729.6	741.5	752.5	754.9	768.2	810.5	860.1	786.6
45°	734.5	734.7	746.4	760.7	785.8	806.8	811.7	841.5	901.9	962.3	882.3
47.5°	761.7	759.4	775.6	799.4	835.2	865.4	878.0	920.3	996.6	1070.9	972.5
50°	792.3	787.6	805.6	846.8	890.9	932.3	953.5	1001.9	1098.2	1171.1	1057.4
52.5°	826.8	824.1	842.9	893.1	960.5	1008.2	1037.0	1100.5	1197.0	1270.9	1124.8
55°	869.6	863.3	890.5	954.3	1042.1	1102.9	1137.0	1198.0	1305.0	1361.5	1176.2
57.5°	916.6	909.7	946.0	1030.9	1148.2	1215.0	1257.6	1307.8	1406.6	1430.9	1206.4
60°	967.2	965.0	1008.0	1120.7	1274.8	1352.3	1383.1	1428.7	1495.0	1471.1	1198.9
62.5°	1013.5	1012.7	1075.4	1218.0	1408.9	1494.2	1518.7	1530.7	1558.7	1468.5	1138.8
65°	1062.3	1069.3	1154.0	1330.9	1562.5	1646.2	1656.4	1625.8	1580.1	1398.9	1016.0
67.5°	1068.4	1081.9	1203.3	1436.6	1708.3	1787.3	1779.1	1661.9	1516.8	1205.2	796.4
70°	955.6	979.0	1124.6	1452.7	1810.9	1869.1	1810.1	1584.2	1287.2	873.1	500.8
72.5°	798.4	818.6	947.2	1238.9	1678.5	1752.6	1672.8	1340.9	909.7	500.8	255.1
75°	621.5	644.9	763.5	984.8	1256.6	1286.2	1246.2	935.2	500.0	206.5	115.9
77.5°	379.2	396.1	488.4	667.2	879.2	835.0	707.6	524.3	219.4	99.0	71.6
80°	167.8	178.2	240.6	358.4	508.0	480.2	378.6	223.9	120.0	62.9	50.0
82.5°	90.0	96.7	118.6	141.8	223.1	233.3	189.2	129.0	64.5	35.9	28.6
85°	39.6	43.5	53.9	51.4	73.3	72.0	72.7	88.6	30.8	16.5	18.6
87.5°	0.0	0.0	0.0	0.0	0.2	0.2	2.2	11.8	3.1	4.9	4.3
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°	464.3	464.3	464.3	464.3	464.3	464.3	464.3	464.3	464.3	464.3	464.3
2.5°	459.4	455.7	454.7	453.5	451.3	447.4	444.5	441.3	439.8	438.2	438.4
5°	448.0	443.5	439.2	433.7	426.8	419.0	413.7	407.6	404.3	401.3	402.1
7.5°	438.2	431.3	422.5	410.8	398.4	384.5	373.3	364.5	358.6	354.5	356.6
10°	432.1	423.9	408.6	389.6	368.6	347.4	331.2	316.1	306.8	299.4	299.0
12.5°	430.8	420.2	398.0	370.4	340.0	311.7	288.0	267.6	255.1	245.9	249.4
15°	432.1	418.6	388.8	352.7	314.3	275.9	246.5	223.1	208.2	199.8	199.2
17.5°	433.5	417.0	378.4	333.5	287.4	243.5	209.4	184.5	169.2	160.8	161.0
20°	434.7	414.5	366.1	312.5	260.0	213.3	178.0	154.3	140.6	134.5	135.5
22.5°	436.8	412.1	353.1	290.0	232.1	184.1	153.1	133.9	125.7	121.6	121.8
25°	440.6	410.6	339.6	265.5	204.5	160.8	135.9	123.1	118.0	115.5	115.3
27.5°	448.6	411.9	325.5	241.9	179.6	143.1	124.9	116.5	113.1	111.4	111.2
30°	461.9	416.8	313.3	217.8	158.2	129.2	117.4	112.3	110.2	108.8	108.6
32.5°	482.1	425.9	300.0	195.3	140.8	119.0	111.4	108.8	107.4	106.5	106.5
35°	512.7	442.7	287.0	175.7	127.4	111.0	106.7	105.7	104.5	104.1	104.5
37.5°	556.8	469.4	275.1	158.6	117.8	104.9	101.6	102.0	101.0	101.6	102.3
40°	612.7	505.1	265.1	144.5	110.6	100.4	97.1	98.6	98.0	98.6	99.6
42.5°	683.5	549.4	257.6	133.5	105.5	96.7	93.7	95.1	94.7	95.5	96.5
45°	762.5	607.8	254.1	125.7	101.8	94.1	90.8	91.8	91.4	92.0	93.1
47.5°	838.2	660.9	257.2	121.2	98.8	91.8	88.4	88.8	88.6	88.4	89.0
50°	903.5	703.1	265.9	119.8	96.7	89.6	86.3	86.5	85.9	84.7	85.1
52.5°	956.8	737.0	271.2	119.8	95.7	87.1	84.1	84.3	83.1	81.4	81.6
55°	991.9	750.7	267.0	119.6	95.3	85.1	81.8	82.0	80.8	78.8	79.0
57.5°	1001.9	737.4	249.0	117.4	94.9	83.5	79.6	80.0	79.2	76.9	76.9
60°	973.9	688.8	216.1	112.3	93.9	82.5	78.0	78.6	78.2	75.9	75.9
62.5°	900.7	602.5	177.0	104.5	91.0	81.2	76.5	77.8	78.8	77.6	77.4
65°	763.5	482.7	143.9	95.9	87.4	79.2	74.5	77.6	79.8	81.4	81.4
67.5°	572.9	345.5	117.4	86.9	81.8	75.1	71.8	74.7	76.3	77.4	78.0
70°	349.2	203.3	92.5	76.5	73.9	69.0	66.5	63.7	61.4	61.0	61.2
72.5°	170.8	116.3	75.1	65.1	63.1	58.6	53.1	51.8	50.8	50.2	50.0
75°	94.1	81.0	62.0	54.1	50.4	44.9	43.7	41.6	41.2	40.4	40.6
77.5°	66.5	63.9	51.2	43.9	38.4	35.5	36.1	34.7	34.7	34.1	33.9
80°	50.0	50.2	39.4	32.0	28.4	27.3	28.0	28.0	27.6	27.3	27.1
82.5°	31.6	35.7	26.5	20.6	20.2	20.4	20.2	20.0	20.4	19.8	19.6
85°	21.8	25.7	16.1	12.2	12.2	12.0	12.4	12.2	12.7	12.0	12.0
87.5°	4.9	11.4	5.9	3.7	3.9	3.7	3.9	4.1	4.5	4.7	4.7
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)