

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P534568

Luminaire Tested: **GALN-SA1A-AMB-U-SL4**

Issue Date: 6/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534568  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-067-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1A-AMB-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) NARROW BAND AMBER, 500mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1171 lumens  
Efficiency: N/A  
Efficacy: 57.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B0 - U0 - G1

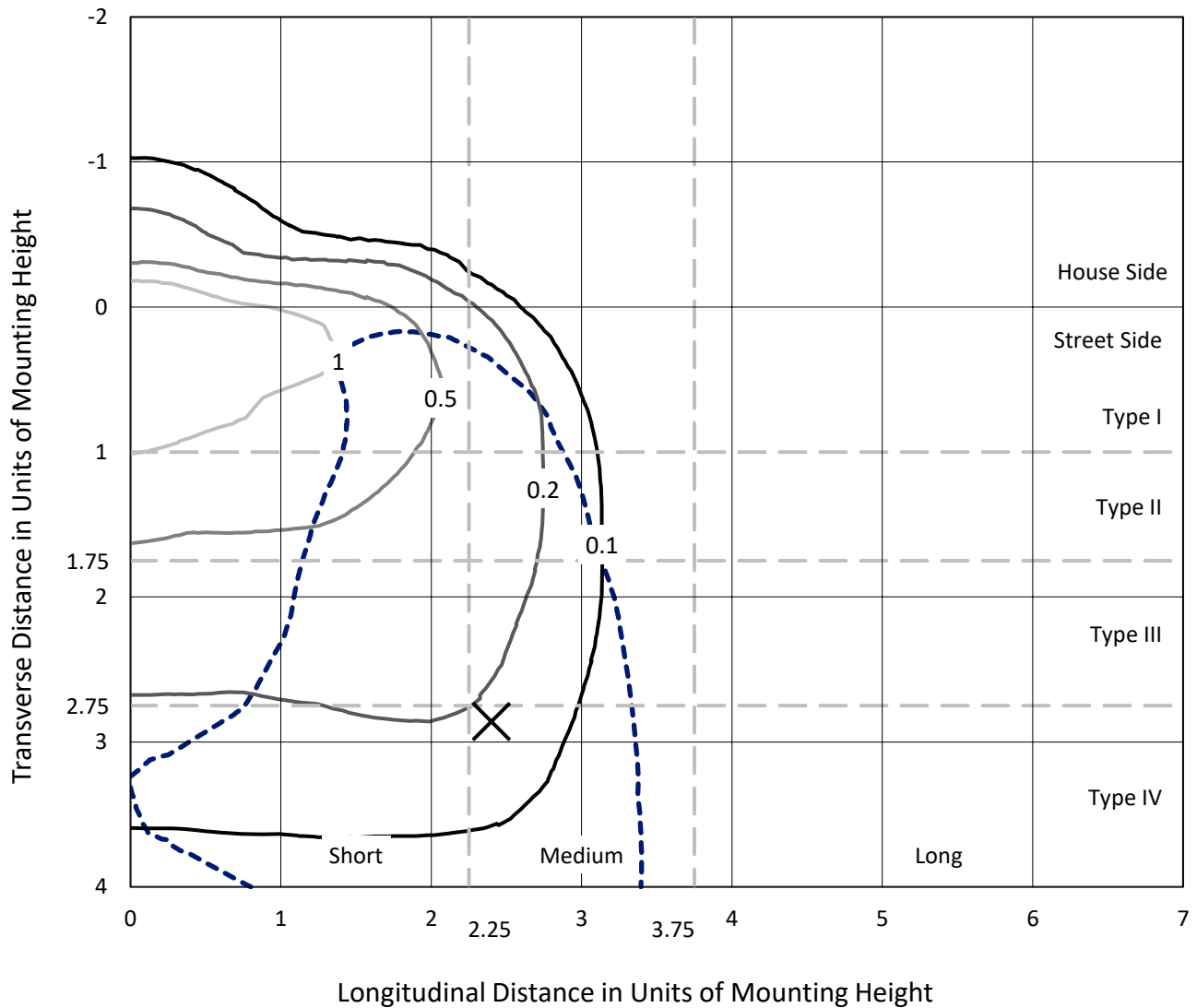
Input Watts (W): 20.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

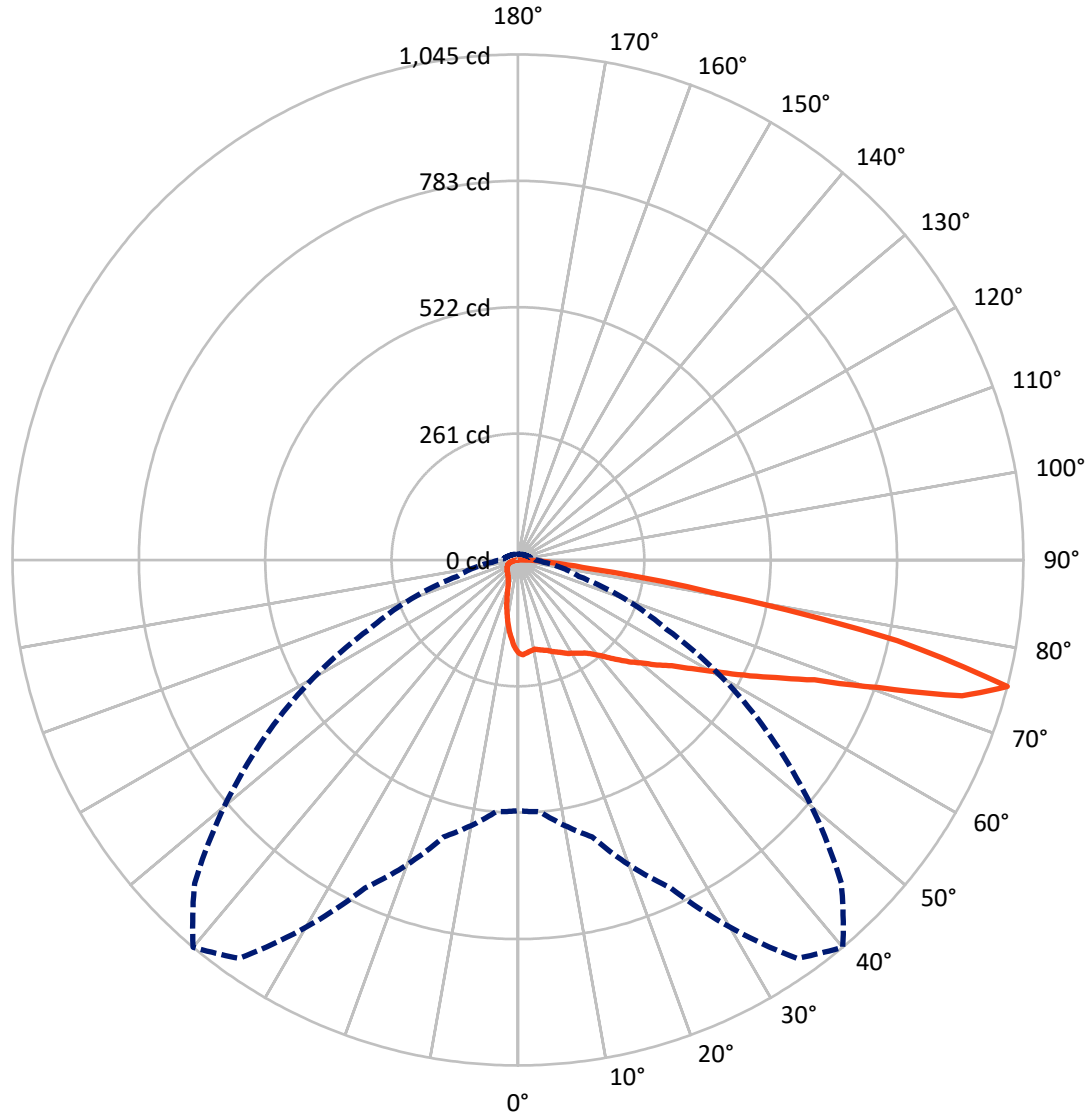
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.9 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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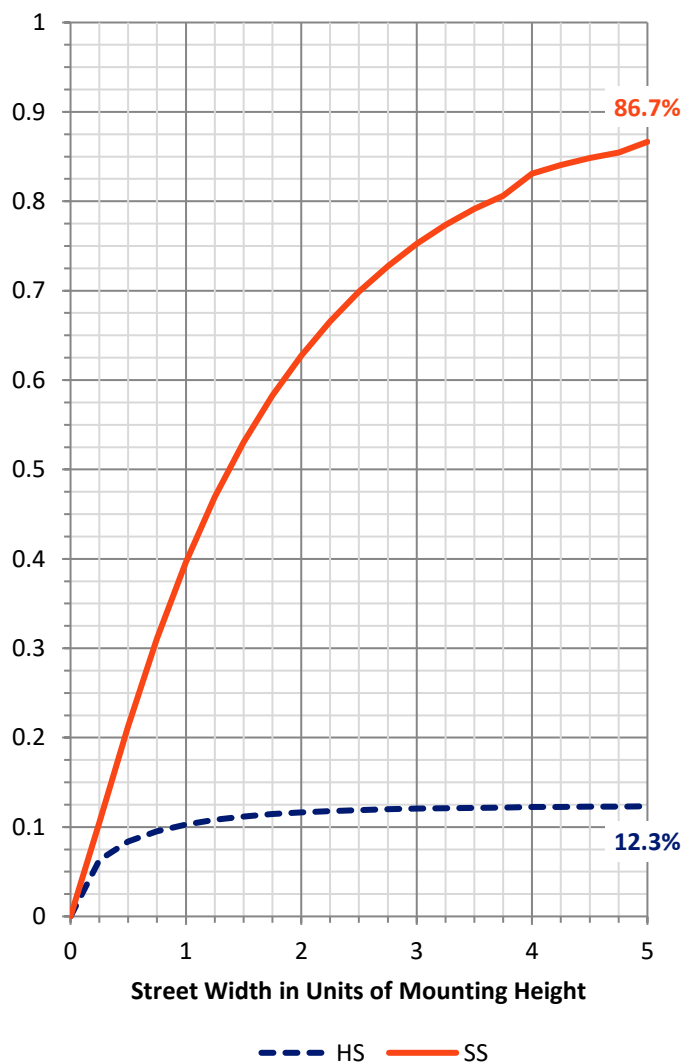
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	145.7	0.0	145.7
	% Fixture	12.4	0.0	12.4
<b>Street Side</b>	Lumens	1025.3	0.0	1025.3
	% Fixture	87.6	0.0	87.6
<b>Total</b>	Lumens	1171.0	0.0	1171.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	16.5	1.4
10°-20°	41.6	3.6
20°-30°	64.3	5.5
30°-40°	93.5	8.0
40°-50°	140.0	12.0
50°-60°	209.2	17.9
60°-70°	294.7	25.2
70°-80°	271.1	23.2
80°-90°	40.0	3.4
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°	1171.0	100.0
0°-180°	1171.0	100.0

**Coefficient of Utilization**

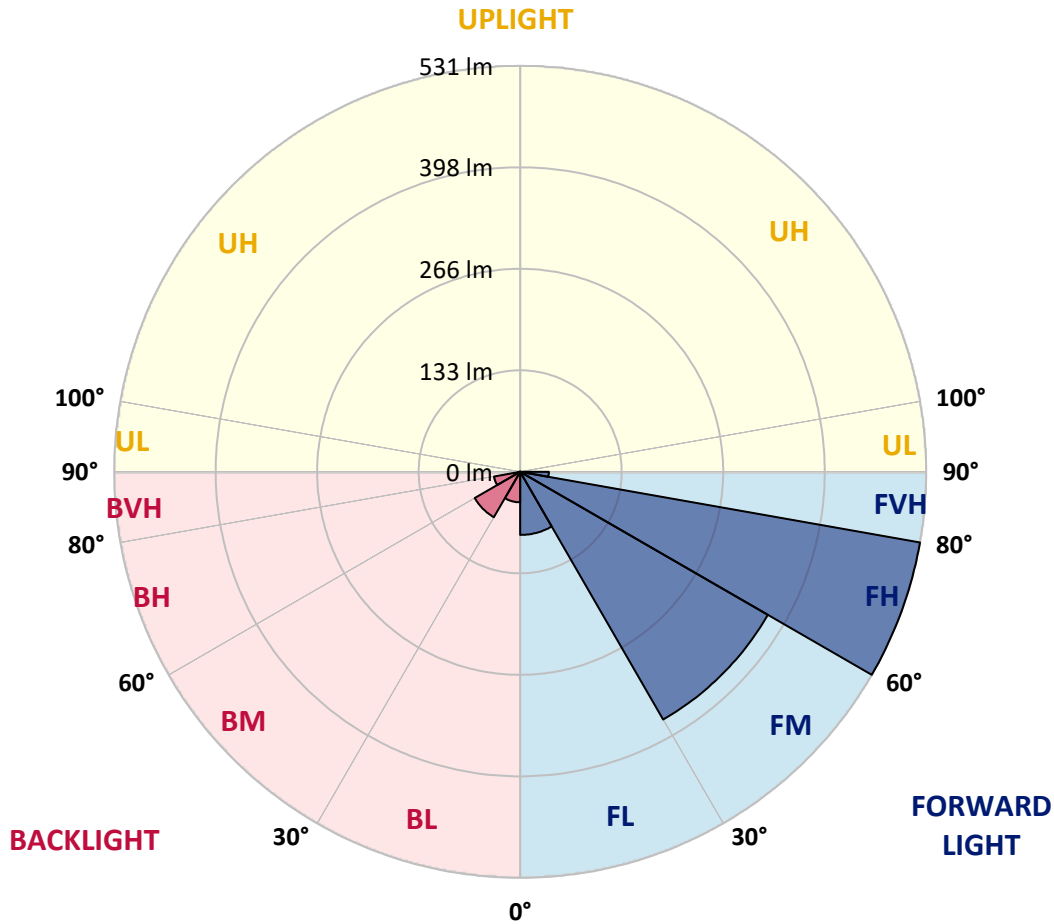


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	82.6	7.1			
FM (30°-60°)	374.1	31.9			
FH (60°-80°)	531.1	45.4			G0/660
FVH (80°-90°)	37.5	3.2			G1/100
BL (0°-30°)	39.9	3.4	B0/110		
BM (30°-60°)	68.6	5.9	B0/220		
BH (60°-80°)	34.8	3.0	B0/110		G0/110
BVH (80°-90°)	2.5	0.2			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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	192.3	192.3	192.3	192.3	192.3	192.3	192.3	192.3	192.3	192.3	192.3
2.5°	196.0	196.5	196.0	196.0	194.9	196.0	194.4	193.9	192.8	192.8	190.7
5°	193.3	194.4	193.3	193.3	192.8	192.8	191.2	190.7	189.1	189.1	186.4
7.5°	189.1	188.6	189.1	189.1	189.1	189.6	188.6	187.0	186.4	184.3	183.3
10°	184.9	185.9	185.4	187.0	187.5	187.5	187.5	186.4	185.4	182.7	181.1
12.5°	180.6	181.1	184.3	186.4	189.1	190.2	189.6	188.6	187.0	183.8	179.6
15°	181.7	180.1	183.3	188.0	191.7	193.3	191.2	191.2	187.5	183.8	179.6
17.5°	181.1	181.1	185.4	191.2	196.0	196.5	196.5	193.9	190.2	186.4	179.6
20°	183.8	183.8	189.1	195.4	200.7	201.8	201.3	196.0	191.7	187.5	183.3
22.5°	189.1	189.6	194.9	202.3	205.0	206.6	205.0	199.7	194.9	191.7	184.9
25°	197.6	197.0	201.3	208.7	212.9	211.9	211.9	203.4	198.1	196.0	190.2
27.5°	205.0	205.5	208.2	215.6	217.7	218.8	216.6	207.1	202.3	202.9	196.0
30°	215.0	216.1	217.7	221.4	223.0	223.5	223.5	214.0	208.7	211.9	202.3
32.5°	227.8	227.2	227.8	230.4	227.8	229.3	228.8	219.8	217.2	224.1	212.4
35°	241.5	241.5	239.9	238.4	234.1	236.2	236.2	227.8	228.8	239.9	223.0
37.5°	255.8	253.7	251.1	246.3	243.1	245.8	247.4	239.9	244.7	261.1	242.6
40°	269.1	264.8	259.5	256.9	254.8	259.0	261.1	256.9	263.8	288.7	268.5
42.5°	277.0	276.5	270.1	267.0	269.1	276.0	277.0	274.9	288.7	320.5	297.7
45°	287.1	284.4	278.6	277.0	286.0	295.0	298.2	295.6	316.7	360.2	328.4
47.5°	293.4	290.8	286.0	289.7	303.0	315.2	322.0	322.0	349.6	402.0	361.8
50°	299.8	296.1	293.4	305.6	319.4	334.8	344.3	350.6	385.1	444.4	400.4
52.5°	310.9	304.6	301.9	323.1	340.0	360.2	376.1	382.4	426.4	491.0	437.5
55°	325.7	321.5	313.6	342.2	364.4	385.6	405.7	423.2	466.6	533.4	468.2
57.5°	341.6	336.9	330.5	366.0	398.8	423.7	443.9	469.3	513.8	580.0	496.3
60°	362.3	357.5	352.8	394.1	440.2	467.7	493.1	521.2	564.1	617.6	519.6
62.5°	382.4	378.2	377.7	424.8	487.8	523.8	544.5	575.8	610.7	648.3	530.2
65°	407.3	405.2	404.1	462.4	549.3	585.8	608.1	640.9	664.7	674.3	515.9
67.5°	430.6	433.3	442.3	508.5	616.0	661.0	694.9	729.9	721.9	676.4	441.7
70°	474.6	475.6	496.8	576.3	721.4	789.2	828.4	823.6	729.4	586.3	300.9
72.5°	521.2	529.1	568.3	679.0	883.5	959.8	971.4	836.4	616.0	371.8	129.2
75°	518.0	522.3	592.2	747.9	1004.8	1044.5	944.9	638.3	339.5	129.8	53.5
77.5°	413.1	424.8	500.5	661.0	859.1	801.4	613.4	317.3	108.6	47.7	32.3
80°	193.9	216.1	262.2	344.8	462.9	404.7	262.2	129.2	54.6	30.7	22.8
82.5°	90.6	94.3	104.9	114.4	154.7	150.4	108.6	101.7	41.8	18.5	11.1
85°	62.0	67.3	74.7	65.7	71.0	70.4	75.2	100.6	29.1	10.6	6.9
87.5°	42.4	45.0	50.3	38.7	42.9	39.7	47.1	86.9	9.5	4.2	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°	192.3	192.3	192.3	192.3	192.3	192.3	192.3	192.3	192.3	192.3	192.3
2.5°	189.6	188.6	185.4	184.9	184.3	181.1	180.6	179.0	178.0	177.4	178.0
5°	185.4	183.8	180.1	176.9	171.1	165.8	162.1	158.4	155.7	156.3	156.3
7.5°	181.7	180.1	174.3	168.4	158.4	151.0	142.0	135.1	130.8	127.7	128.7
10°	179.0	176.4	169.0	158.4	145.7	132.9	122.9	111.8	104.9	102.2	102.2
12.5°	178.0	174.8	162.6	148.3	131.9	116.5	101.7	90.0	81.6	79.5	78.4
15°	176.9	171.1	155.7	137.2	117.1	99.6	83.7	72.6	63.0	59.3	59.9
17.5°	176.4	169.5	149.4	127.1	103.8	83.2	68.3	56.7	51.4	48.7	48.7
20°	176.9	167.9	144.1	114.9	89.0	68.9	55.1	48.2	45.0	43.4	44.0
22.5°	178.5	165.8	135.1	103.3	76.8	57.7	48.2	44.5	42.4	41.3	41.3
25°	180.6	165.8	129.2	90.6	65.7	50.8	44.0	41.8	40.3	40.3	39.2
27.5°	184.9	166.3	121.3	80.0	56.7	45.6	41.8	39.7	38.7	38.7	38.7
30°	187.0	165.8	113.9	70.4	49.8	42.4	39.2	38.7	38.1	37.1	37.1
32.5°	192.3	165.3	105.4	62.0	45.0	39.7	37.6	37.1	36.5	36.0	36.0
35°	201.3	167.4	94.8	55.1	41.3	37.6	36.0	35.5	35.0	35.0	34.4
37.5°	212.4	170.6	87.4	49.3	38.7	35.5	34.4	33.9	33.9	33.9	33.9
40°	229.9	177.4	81.0	45.6	36.5	33.9	32.8	32.8	32.8	32.3	32.3
42.5°	249.5	185.9	75.7	42.9	35.5	32.8	31.8	31.3	31.3	31.3	31.3
45°	272.8	194.9	71.0	40.8	35.0	32.3	31.3	30.2	30.2	30.2	29.7
47.5°	297.7	205.5	67.3	39.7	33.9	31.8	30.2	29.7	29.1	28.6	28.6
50°	324.7	217.7	65.7	39.2	33.4	30.7	29.1	28.6	28.1	27.0	27.0
52.5°	350.1	229.9	66.7	38.7	32.8	29.7	28.1	28.1	27.0	26.0	26.5
55°	370.8	241.5	67.8	38.7	32.3	28.1	27.0	27.0	26.0	24.9	24.9
57.5°	389.3	250.0	68.3	39.2	32.3	27.0	25.4	26.0	24.9	24.4	24.4
60°	403.1	253.2	68.3	40.3	32.3	26.0	23.8	24.9	24.4	23.3	23.8
62.5°	402.0	240.5	63.6	40.8	32.3	25.4	22.8	23.8	24.9	23.8	23.8
65°	366.0	191.7	55.1	38.1	31.8	24.9	21.2	22.8	24.4	23.8	23.8
67.5°	277.0	127.1	44.5	34.4	29.1	23.8	20.1	20.1	21.7	21.2	21.7
70°	162.1	68.9	36.5	29.7	25.4	21.7	18.5	17.5	17.5	17.5	17.5
72.5°	66.7	40.3	29.7	24.9	21.7	18.5	16.4	14.8	14.3	14.3	14.3
75°	37.1	29.7	24.4	20.1	17.5	15.4	14.3	12.7	12.2	12.2	12.2
77.5°	27.0	24.4	19.6	15.4	13.2	12.2	11.1	10.6	10.1	10.1	10.1
80°	20.7	19.1	14.8	11.7	10.1	8.5	8.5	7.9	7.9	7.9	7.9
82.5°	12.2	14.3	10.6	7.9	7.4	6.4	5.8	5.8	5.8	5.3	5.3
85°	7.9	10.6	6.4	4.8	3.7	3.2	3.7	3.2	3.2	2.6	2.6
87.5°	1.6	3.2	1.6	0.5	0.5	0.5	0.5	0.5	0.5	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)