

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: P534564

Luminaire Tested: **GALN-SA1A-AMB-U-SL2**

Issue Date: 6/10/2021

Test Information

Test Method: LM-79-08
Report Number: P534564
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-067-4)
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-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) NARROW BAND AMBER, 500mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1206 lumens
Efficiency: N/A
Efficacy: 58.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - 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

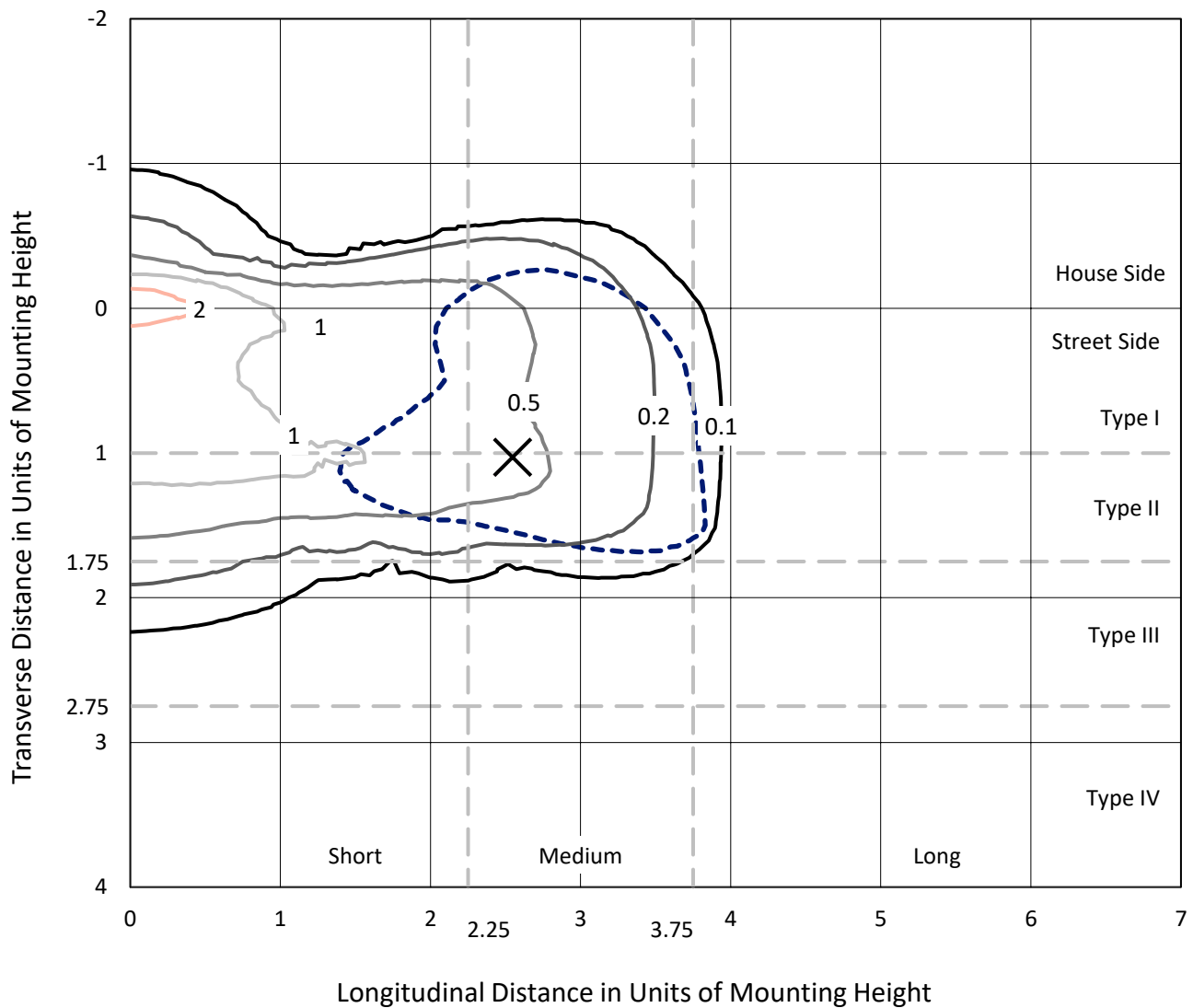


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

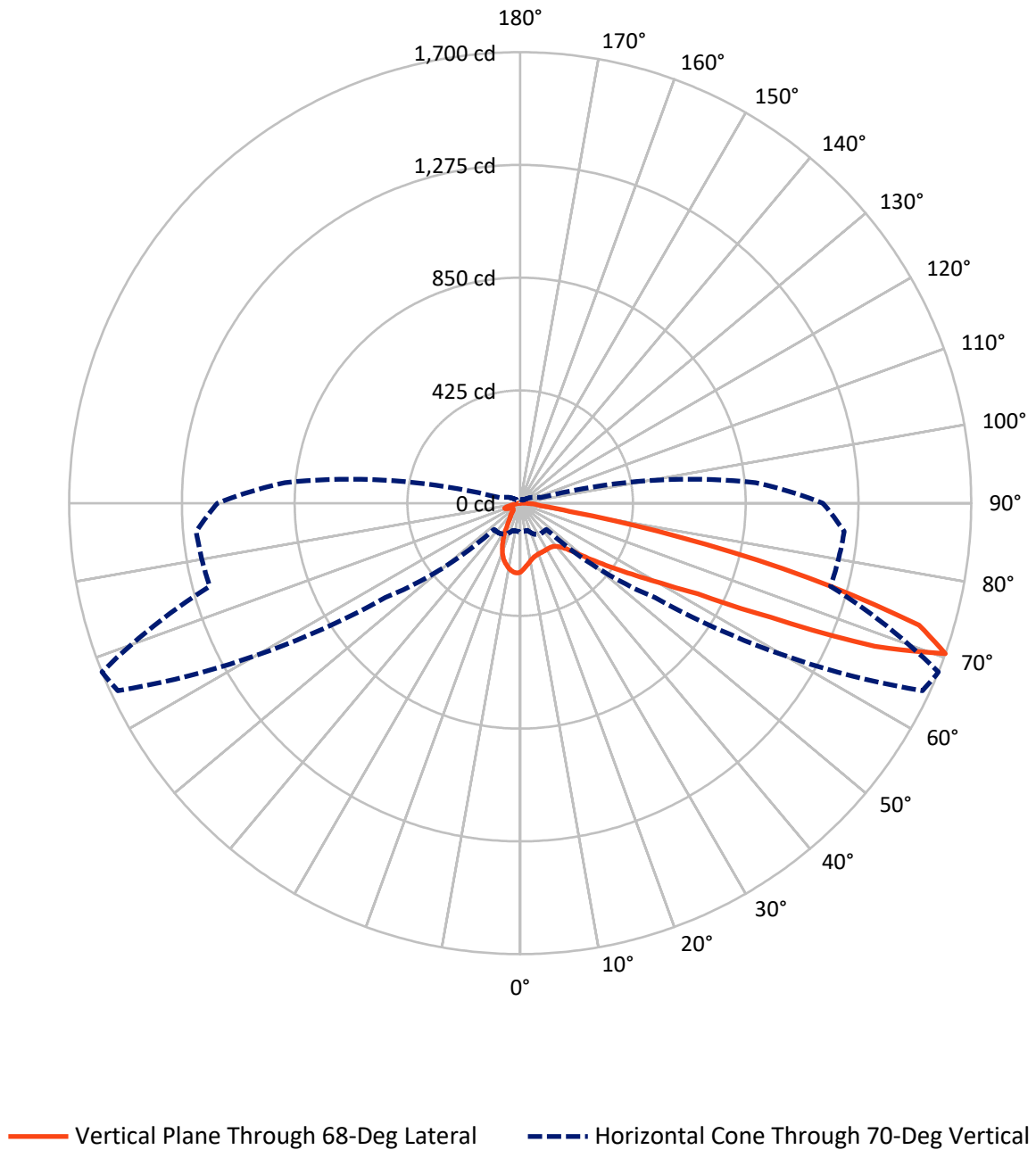


Based on 10 foot mounting height. Maximum calculated value = 2.6 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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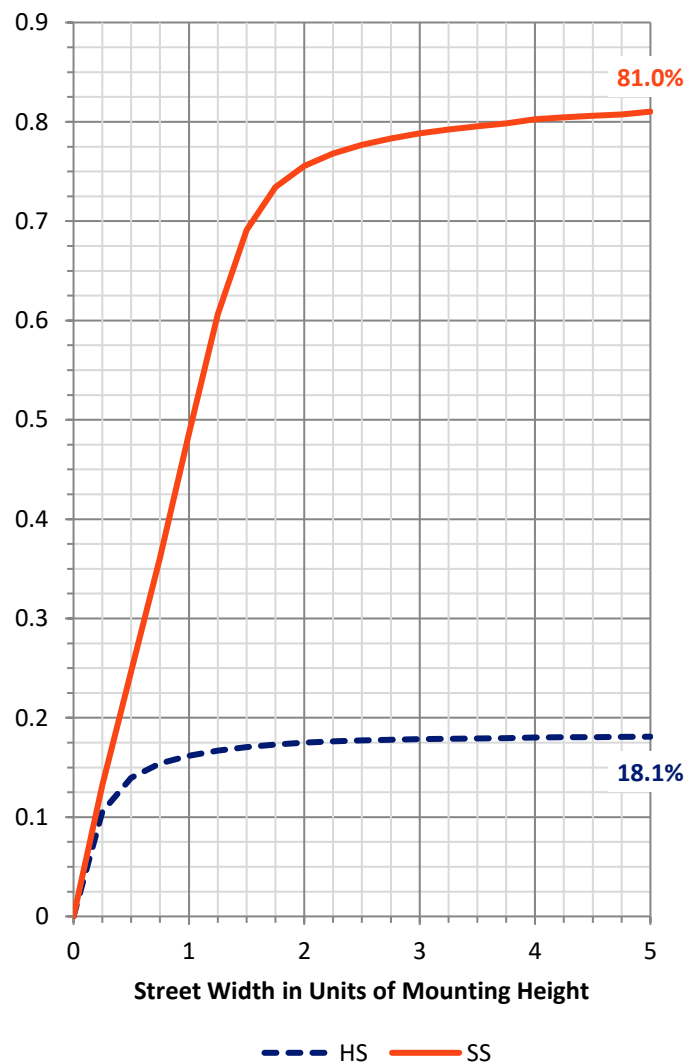
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	220.6	0.0	220.6
	% Fixture	18.3	0.0	18.3
Street Side	Lumens	985.4	0.0	985.4
	% Fixture	81.7	0.0	81.7
Total	Lumens	1206.0	0.0	1206.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.1	1.8
10°-20°	50.7	4.2
20°-30°	68.2	5.7
30°-40°	93.8	7.8
40°-50°	142.6	11.8
50°-60°	237.0	19.7
60°-70°	333.3	27.6
70°-80°	230.6	19.1
80°-90°	27.8	2.3
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°	1206.0	100.0
0°-180°	1206.0	100.0

Coefficient of Utilization



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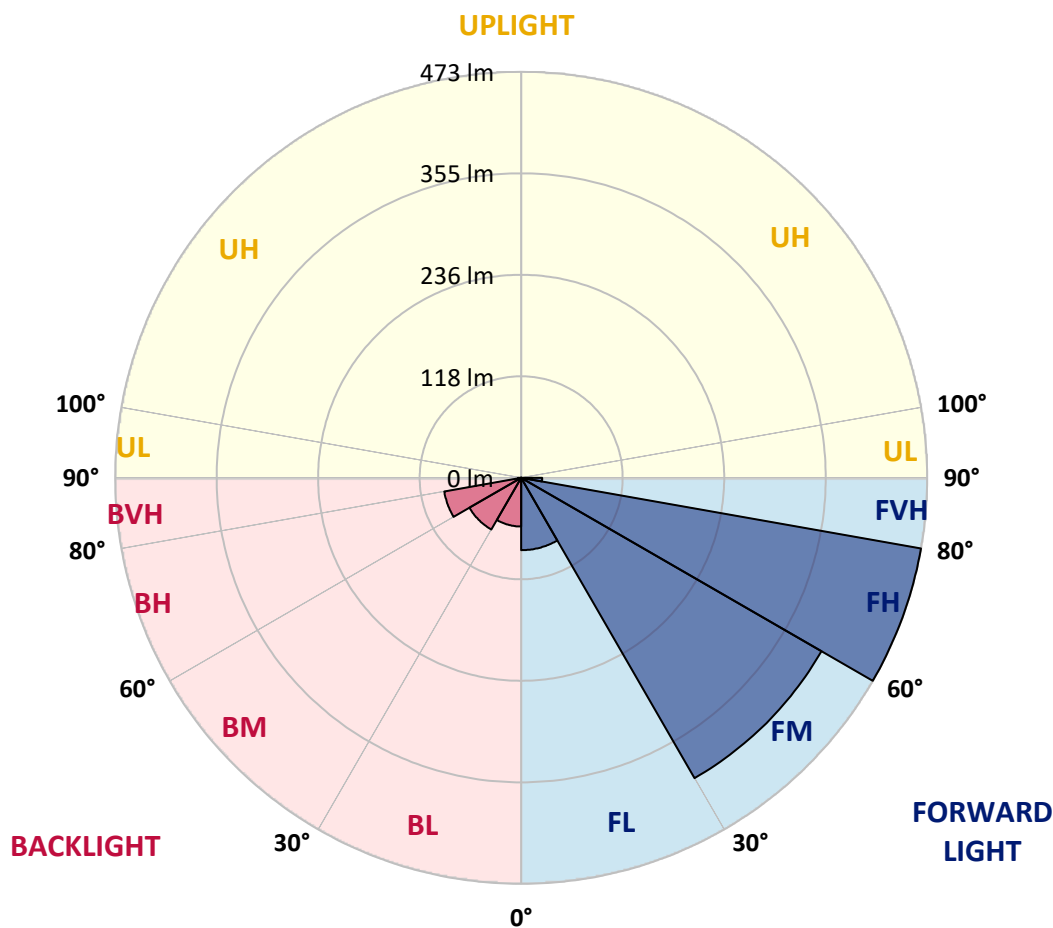
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	84.3	7.0			
FM	(30°-60°)	403.9	33.5			
FH	(60°-80°)	472.9	39.2			G0/660
FVH	(80°-90°)	24.4	2.0			G1/100
BL	(0°-30°)	56.7	4.7	B0/110		
BM	(30°-60°)	69.5	5.8	B0/220		
BH	(60°-80°)	91.0	7.5	B0/110		G0/110
BVH	(80°-90°)	3.4	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	259.4	259.4	259.4	259.4	259.4	259.4	259.4	259.4	259.4	259.4	259.4
2.5°	235.6	235.0	236.1	236.1	237.7	240.9	243.0	246.7	249.3	252.0	255.2
5°	217.0	216.5	218.6	219.2	223.4	228.2	231.3	236.6	237.7	243.0	250.4
7.5°	202.2	202.2	202.7	205.4	208.6	212.3	218.1	225.0	229.2	235.6	248.8
10°	190.6	190.0	191.6	192.7	197.5	201.7	208.0	216.0	219.7	227.1	245.6
12.5°	181.0	180.5	181.6	183.7	187.9	191.6	198.5	210.2	212.8	221.8	245.1
15°	174.7	174.2	174.7	176.8	180.5	185.8	193.2	202.7	207.5	219.7	246.7
17.5°	172.6	172.0	171.5	172.0	175.8	179.5	189.0	200.1	204.9	219.2	249.9
20°	174.2	173.1	172.0	172.0	172.6	177.3	186.9	197.5	203.3	217.0	254.1
22.5°	178.9	178.4	176.3	173.6	172.6	176.3	185.3	197.5	202.2	217.6	256.7
25°	187.4	186.3	184.2	180.5	176.8	177.3	185.8	196.9	201.7	217.6	260.4
27.5°	197.5	195.9	194.3	190.6	183.2	180.0	185.3	198.5	201.2	216.0	263.1
30°	212.8	212.3	209.1	204.3	194.3	184.7	188.5	197.5	201.2	214.4	264.7
32.5°	231.3	230.8	228.7	223.4	209.1	194.3	192.2	198.5	201.2	213.9	266.3
35°	249.9	249.3	250.9	246.7	230.8	207.5	199.0	201.7	202.7	214.9	266.3
37.5°	266.8	266.3	267.9	272.6	256.7	226.6	209.6	206.5	206.5	216.5	268.9
40°	284.8	285.3	292.2	297.0	289.6	249.9	223.4	215.5	214.4	224.5	273.7
42.5°	305.4	303.3	315.5	326.6	319.2	281.1	245.1	229.2	226.0	235.0	284.3
45°	319.7	325.0	336.1	357.9	357.3	318.2	276.3	252.5	246.7	252.5	303.9
47.5°	349.4	348.9	363.7	391.7	398.6	363.1	312.3	284.3	276.3	279.5	329.8
50°	386.4	384.9	402.3	433.0	454.2	413.4	361.0	328.2	319.2	319.2	369.5
52.5°	409.2	410.8	424.6	465.8	518.3	488.1	415.0	381.1	372.1	372.7	421.4
55°	396.0	397.6	413.4	462.1	551.1	607.2	484.9	451.0	435.1	428.8	492.8
57.5°	340.4	337.2	349.9	407.1	536.3	698.2	627.3	532.0	514.0	503.4	574.4
60°	253.0	250.9	252.0	288.0	444.1	725.2	855.5	644.2	612.0	588.1	673.9
62.5°	192.2	192.2	190.0	191.6	264.7	674.9	1038.1	856.5	751.2	683.9	775.5
65°	157.2	155.1	158.3	156.7	159.3	444.1	1123.9	1211.2	1037.0	814.7	919.5
67.5°	128.1	126.0	128.1	145.6	139.2	195.3	1003.7	1561.1	1440.9	978.8	1074.1
70°	109.0	106.4	106.4	129.7	138.2	139.8	619.9	1672.8	1699.8	1210.7	1225.5
72.5°	81.5	82.1	83.1	111.7	138.2	134.5	258.9	1468.5	1571.7	1285.3	1174.1
75°	54.0	54.5	57.7	82.1	142.9	136.6	142.4	987.8	1121.7	985.2	815.8
77.5°	36.0	36.0	39.2	53.5	124.9	140.8	132.9	519.3	615.7	465.3	266.8
80°	24.4	24.4	25.4	36.0	86.8	148.8	131.3	201.7	190.0	98.5	54.0
82.5°	14.3	14.3	16.9	24.4	51.3	146.1	130.2	105.9	78.9	36.5	28.6
85°	6.9	6.9	10.1	14.8	28.6	109.6	123.9	89.5	59.3	24.4	16.9
87.5°	2.1	2.1	4.2	7.4	13.2	56.6	84.2	61.4	29.6	9.5	5.8
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°	259.4	259.4	259.4	259.4	259.4	259.4	259.4	259.4	259.4	259.4	259.4
2.5°	257.8	259.4	261.0	264.7	264.7	264.7	262.6	263.1	262.0	263.1	263.6
5°	256.2	259.4	264.2	261.5	259.9	255.7	249.9	244.6	241.9	241.9	239.3
7.5°	254.6	258.9	261.0	256.2	247.2	236.1	227.6	218.1	212.8	210.7	210.7
10°	254.1	261.0	259.9	246.7	231.3	214.4	197.5	182.6	170.5	166.2	164.6
12.5°	256.2	263.6	254.6	233.5	212.3	186.9	162.5	138.7	122.8	115.9	115.4
15°	261.5	266.3	248.8	221.3	189.0	155.6	124.9	96.3	84.2	79.9	79.4
17.5°	264.7	267.3	241.9	205.4	163.6	119.6	84.2	69.3	67.2	67.2	67.8
20°	267.9	266.3	230.8	187.4	133.9	81.5	57.7	54.0	55.6	58.8	59.3
22.5°	271.0	259.9	218.6	163.0	94.8	52.4	45.5	45.0	48.2	52.9	53.5
25°	269.4	253.0	202.2	135.5	58.8	41.8	39.2	40.2	42.3	45.5	46.1
27.5°	266.3	246.7	189.0	105.3	41.3	37.1	36.5	37.1	38.1	39.7	40.8
30°	263.1	240.9	173.1	70.9	37.1	35.5	34.9	34.9	34.9	36.0	36.5
32.5°	259.4	232.4	156.2	46.6	34.9	33.9	33.4	32.8	32.8	32.8	32.8
35°	255.7	226.0	139.2	37.6	33.4	32.3	31.8	30.7	30.7	30.2	30.7
37.5°	252.5	219.2	117.0	34.9	31.8	31.2	30.2	29.1	28.6	29.1	28.6
40°	253.6	217.0	94.2	33.4	31.2	30.2	28.6	28.1	27.5	28.1	28.1
42.5°	257.8	213.9	72.5	32.3	30.2	28.6	27.5	26.5	26.5	27.0	27.0
45°	267.3	214.9	55.1	31.2	29.1	28.1	26.5	25.9	25.9	25.9	25.9
47.5°	286.4	223.4	46.1	30.7	28.6	27.0	25.9	24.9	24.9	24.9	24.4
50°	315.0	237.2	42.9	30.7	28.1	27.0	25.4	23.8	23.3	23.3	23.3
52.5°	355.2	262.6	42.9	30.2	27.5	25.9	24.4	22.8	22.2	21.7	21.7
55°	414.5	295.9	43.9	30.2	26.5	25.4	23.3	21.7	20.6	20.6	20.6
57.5°	496.5	355.7	43.4	29.6	25.9	23.8	21.7	20.6	19.6	19.1	19.1
60°	596.1	434.1	42.9	29.1	25.4	22.2	20.1	19.1	18.0	18.0	18.0
62.5°	712.0	547.9	45.5	30.2	24.9	20.6	19.1	18.0	16.9	16.9	16.9
65°	864.5	687.7	68.3	32.3	24.4	19.6	17.5	16.4	15.9	15.9	15.9
67.5°	1036.5	868.7	80.5	39.7	24.9	18.0	15.9	15.4	14.8	14.3	14.8
70°	1140.8	889.9	80.5	52.4	28.6	16.4	14.3	13.8	13.8	13.2	13.2
72.5°	1016.4	734.8	76.2	55.1	31.2	15.4	13.2	12.7	12.2	11.6	11.6
75°	660.7	415.0	65.6	45.0	26.5	13.8	11.6	11.1	10.6	10.6	10.6
77.5°	199.6	122.3	43.4	31.8	17.5	11.6	10.1	9.5	9.0	9.0	8.5
80°	49.8	40.2	20.6	17.5	11.1	9.0	7.9	7.4	6.9	6.9	6.9
82.5°	27.0	24.9	12.7	10.1	7.9	6.4	6.4	5.8	5.3	4.8	4.8
85°	16.4	14.8	9.0	6.4	4.8	3.7	3.7	3.7	3.2	3.2	2.6
87.5°	5.8	6.4	4.2	2.1	1.6	1.6	1.1	1.1	1.1	0.5	0.5
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)