

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: P594518

Luminaire Tested: **ISS-PA1A-AMB-U-T2U**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594518
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISS-PA1A-AMB-U-T2U
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) NARROW BAND AMBER, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1366 lumens
Efficiency: N/A
Efficacy: 43.1 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

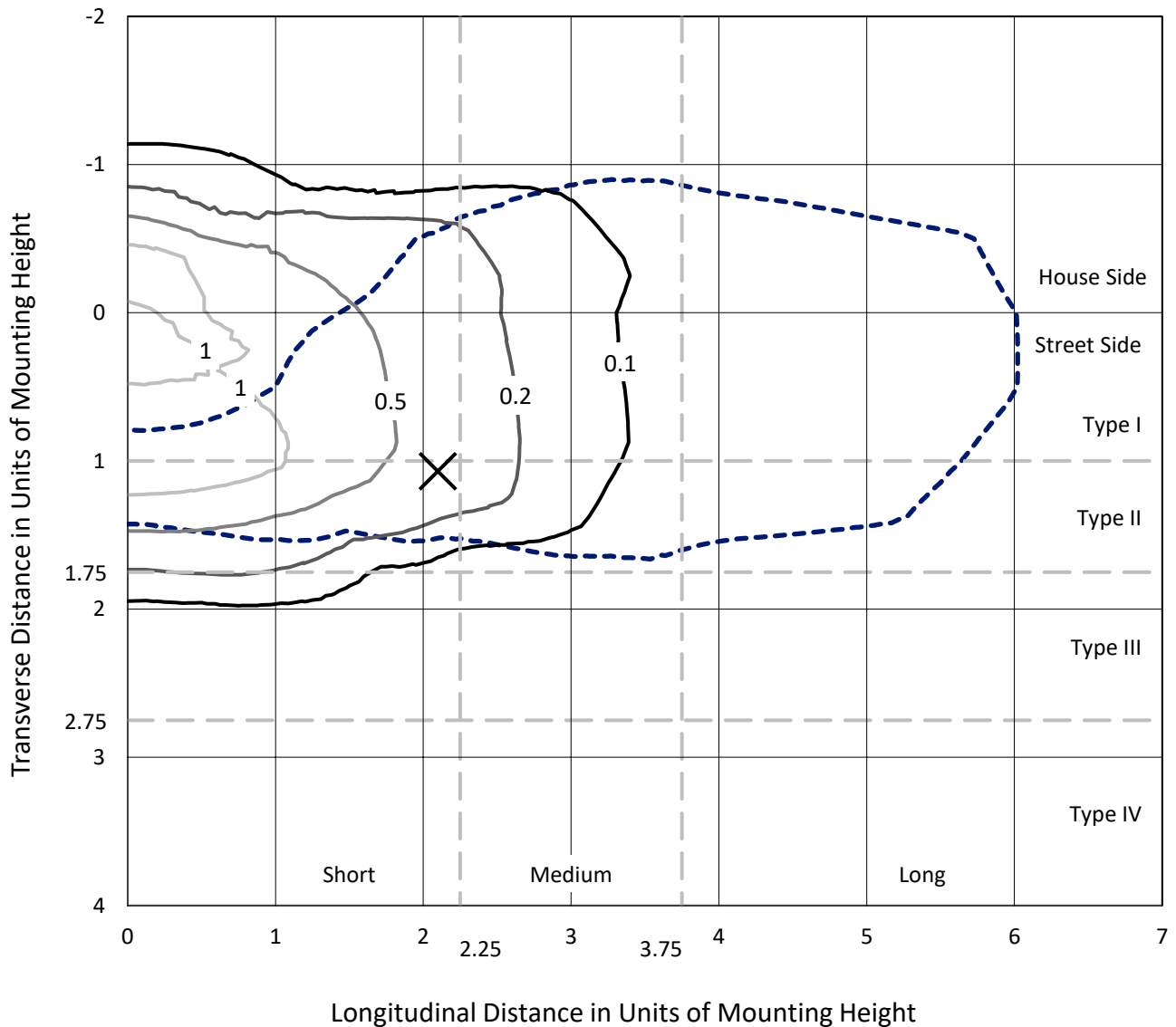
Input Watts (W): 31.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

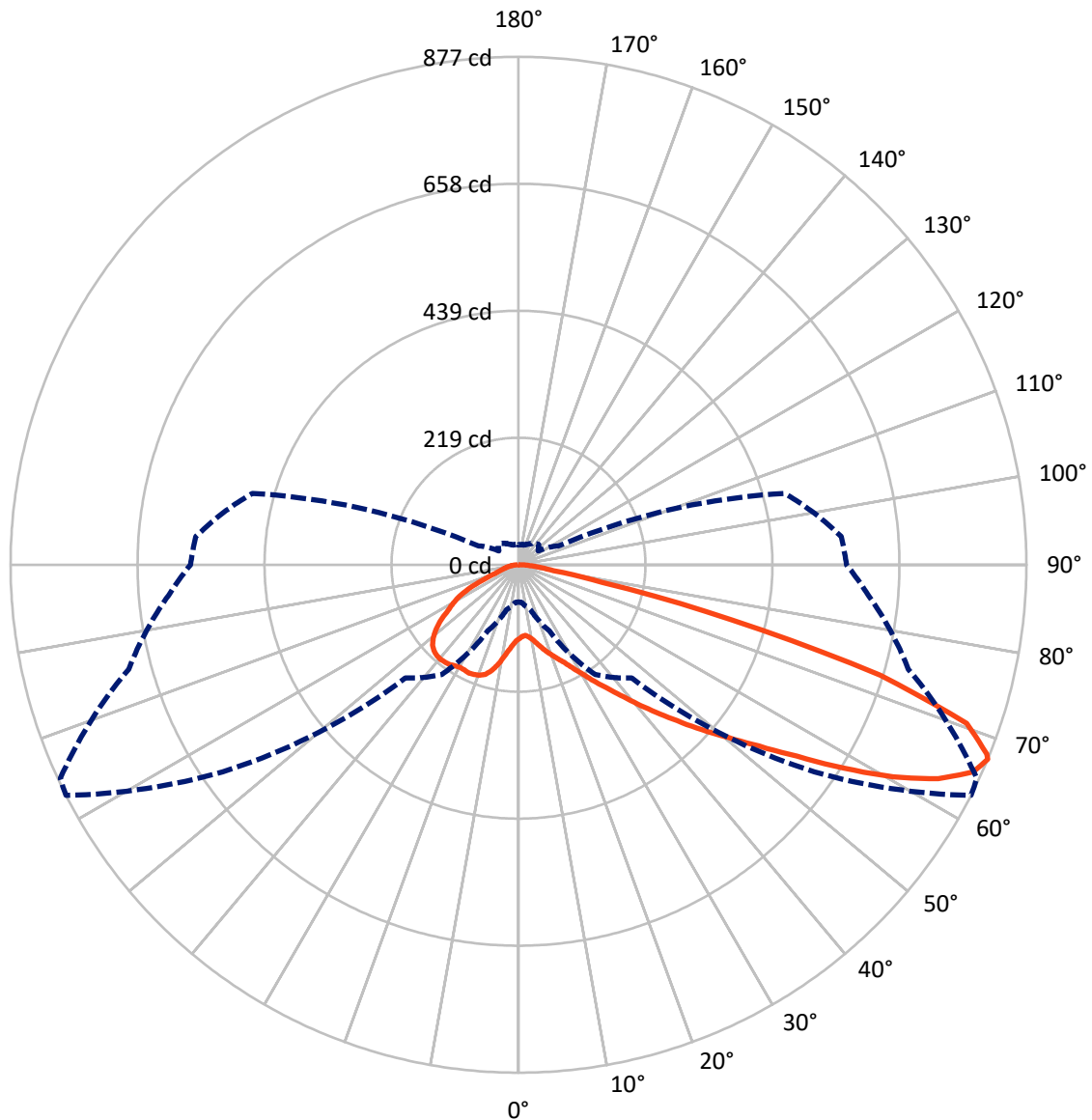
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 1.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical



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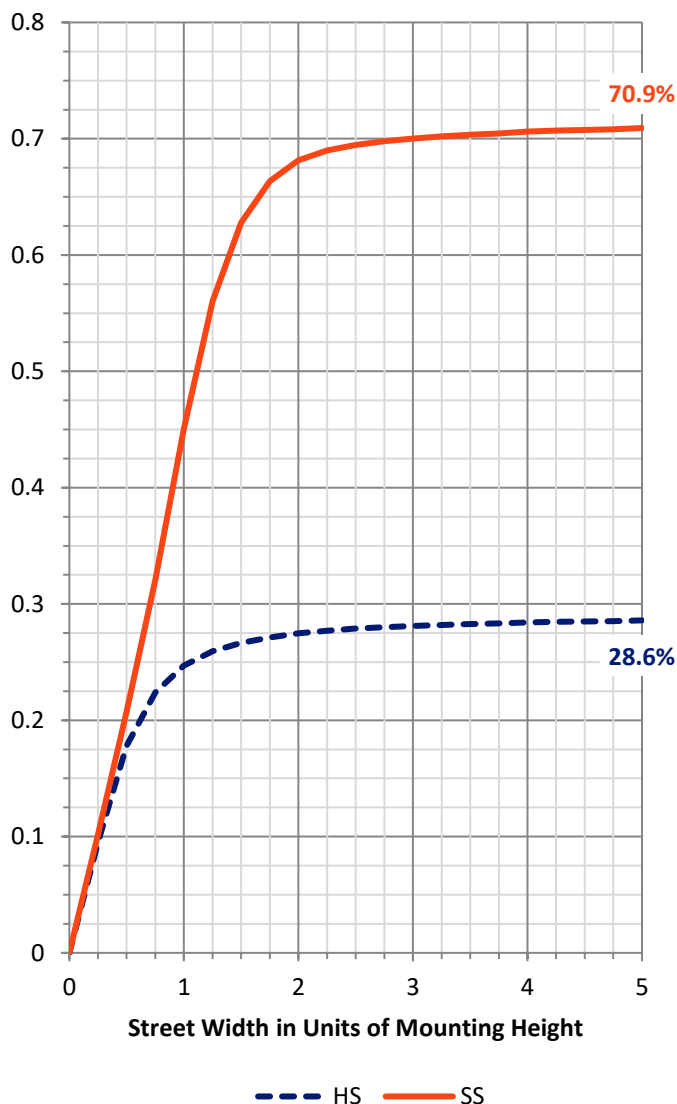
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	394.2	0.0	394.2
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	971.8	0.0	971.8
	% Fixture	71.1	0.0	71.1
Total	Lumens	1366.0	0.0	1366.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.0	1.0
10°-20°	46.7	3.4
20°-30°	91.2	6.7
30°-40°	140.8	10.3
40°-50°	237.2	17.4
50°-60°	319.6	23.4
60°-70°	292.9	21.4
70°-80°	190.8	14.0
80°-90°	33.9	2.5
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°	1366.0	100.0
0°-180°	1366.0	100.0

Coefficient of Utilization



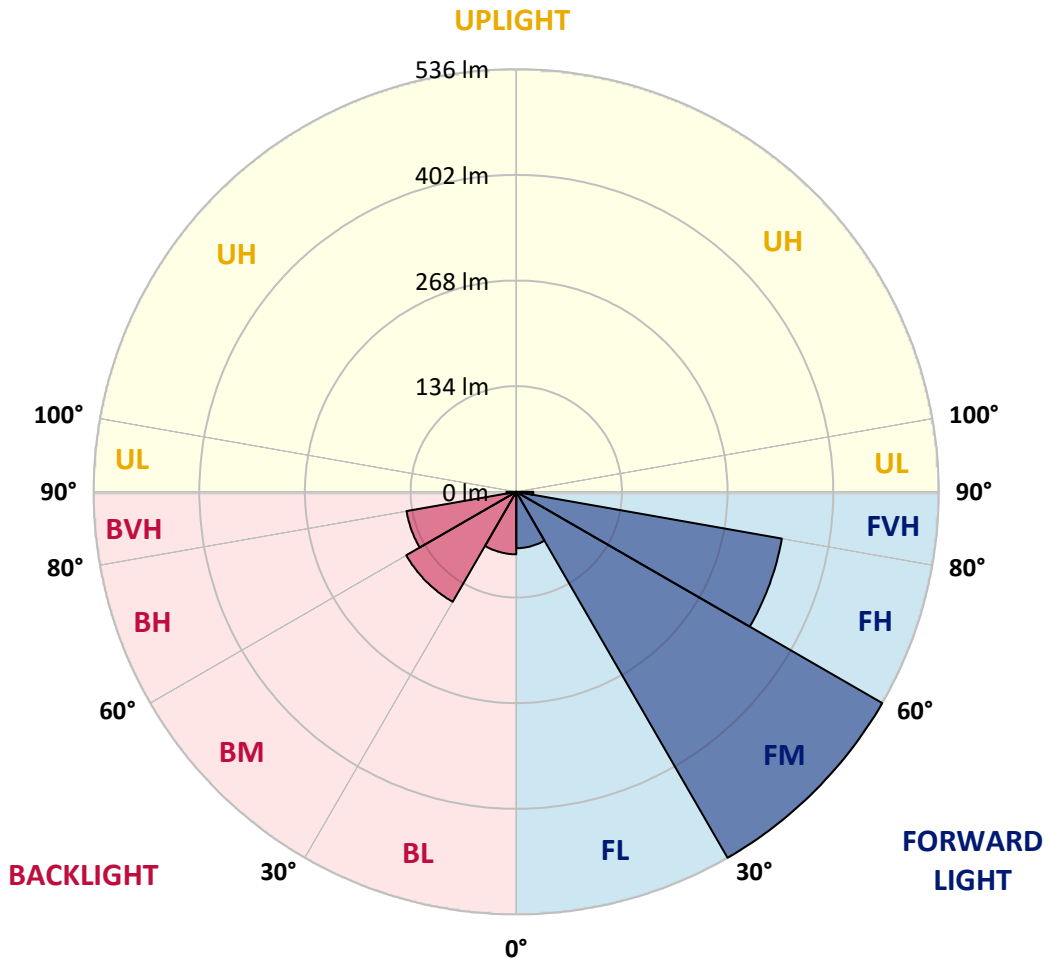
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	71.6	5.2			
FM (30°-60°)	536.3	39.3			
FH (60°-80°)	342.2	25.1			G0/660
FVH (80°-90°)	21.7	1.6			G1/100
BL (0°-30°)	79.3	5.8	B0/110		
BM (30°-60°)	161.2	11.8	B0/220		
BH (60°-80°)	141.5	10.4	B1/500		G1/500
BVH (80°-90°)	12.3	0.9			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	127.8	127.8	127.8	127.8	127.8	127.8	127.8	127.8	127.8	127.8	127.8
2.5°	118.7	118.7	118.7	119.7	120.7	121.7	122.7	123.7	124.7	125.7	127.8
5°	112.7	111.7	112.7	113.7	115.7	117.7	120.7	122.7	124.7	127.8	131.8
7.5°	113.7	113.7	113.7	114.7	116.7	118.7	122.7	125.7	126.8	132.8	136.8
10°	119.7	118.7	119.7	118.7	120.7	123.7	127.8	130.8	132.8	138.8	144.9
12.5°	127.8	126.8	125.7	125.7	127.8	129.8	135.8	138.8	141.8	148.9	154.9
15°	135.8	134.8	134.8	133.8	134.8	136.8	142.8	147.9	150.9	158.9	164.0
17.5°	145.9	144.9	144.9	143.9	143.9	145.9	150.9	157.9	162.0	171.0	175.0
20°	157.9	156.9	155.9	154.9	155.9	155.9	159.9	167.0	171.0	183.1	185.1
22.5°	172.0	171.0	171.0	170.0	168.0	168.0	170.0	177.1	181.1	193.1	193.1
25°	190.1	189.1	187.1	185.1	185.1	182.1	183.1	188.1	192.1	207.2	203.2
27.5°	213.3	212.3	209.2	206.2	202.2	197.2	198.2	203.2	207.2	222.3	213.3
30°	246.5	244.5	238.4	230.4	222.3	215.3	216.3	219.3	223.3	237.4	224.3
32.5°	287.7	286.7	279.7	263.6	249.5	238.4	237.4	239.4	242.4	254.5	237.4
35°	338.0	335.0	326.9	305.8	282.7	267.6	260.5	260.5	264.6	272.6	251.5
37.5°	406.4	401.4	384.3	358.1	324.9	300.8	287.7	285.7	288.7	296.8	271.6
40°	492.9	485.9	469.8	424.5	377.2	339.0	320.9	315.9	315.9	323.9	294.7
42.5°	567.4	567.4	549.3	514.1	448.7	395.3	363.2	348.1	349.1	354.1	319.9
45°	619.7	617.7	612.6	597.5	537.2	467.8	411.4	384.3	385.3	384.3	350.1
47.5°	635.8	632.8	640.8	651.9	630.7	557.3	469.8	425.5	423.5	420.5	382.3
50°	603.6	600.6	627.7	674.0	698.1	671.0	537.2	468.8	464.8	457.7	413.5
52.5°	518.1	523.1	563.3	645.8	731.3	769.6	611.6	520.1	514.1	497.0	449.7
55°	440.6	444.6	487.9	561.3	707.2	820.9	693.1	583.5	572.4	539.2	482.9
57.5°	331.0	339.0	407.4	478.8	612.6	805.8	764.5	662.9	641.8	579.4	516.1
60°	226.3	229.4	306.8	401.4	507.0	714.2	809.8	743.4	713.2	621.7	547.2
62.5°	154.9	154.9	201.2	313.9	407.4	554.3	817.9	813.8	788.7	658.9	576.4
65°	92.5	93.6	121.7	206.2	311.9	393.3	749.4	863.1	844.0	683.1	598.6
67°	64.4	65.4	80.5	125.7	231.4	276.6	623.7	877.2	873.2	697.1	606.6
67.5°	61.4	61.4	73.4	113.7	213.3	256.5	591.5	872.2	875.2	699.2	606.6
70°	55.3	56.3	62.4	68.4	136.8	145.9	362.1	820.9	852.1	708.2	608.6
72.5°	44.3	45.3	55.3	64.4	91.5	89.5	161.0	652.9	747.4	714.2	608.6
75°	34.2	34.2	41.2	56.3	64.4	61.4	73.4	380.3	516.1	690.1	602.6
77.5°	25.1	26.2	32.2	42.3	63.4	43.3	46.3	147.9	254.5	593.5	572.4
80°	17.1	17.1	22.1	31.2	45.3	31.2	32.2	61.4	91.5	403.4	487.9
82.5°	10.1	11.1	15.1	23.1	30.2	30.2	21.1	34.2	39.2	162.0	273.6
85°	7.0	7.0	10.1	13.1	21.1	18.1	12.1	20.1	23.1	60.4	18.1
87.5°	3.0	3.0	5.0	7.0	9.1	7.0	8.0	8.0	9.1	18.1	8.0
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°	127.8	127.8	127.8	127.8	127.8	127.8	127.8	127.8	127.8	127.8	127.8
2.5°	128.8	129.8	130.8	131.8	132.8	133.8	133.8	134.8	134.8	134.8	134.8
5°	132.8	134.8	137.8	139.8	141.8	143.9	144.9	145.9	145.9	145.9	146.9
7.5°	139.8	141.8	145.9	149.9	153.9	155.9	157.9	158.9	158.9	159.9	158.9
10°	147.9	150.9	156.9	163.0	167.0	170.0	171.0	168.0	166.0	165.0	164.0
12.5°	157.9	161.0	170.0	177.1	181.1	179.1	174.0	169.0	168.0	169.0	169.0
15°	168.0	171.0	181.1	189.1	190.1	182.1	176.0	177.1	179.1	181.1	181.1
17.5°	178.1	182.1	191.1	199.2	194.2	184.1	187.1	191.1	192.1	194.2	193.1
20°	187.1	189.1	200.2	204.2	195.2	193.1	200.2	203.2	204.2	206.2	205.2
22.5°	193.1	195.2	204.2	206.2	197.2	204.2	210.2	211.3	209.2	208.2	206.2
25°	201.2	200.2	206.2	206.2	204.2	212.3	213.3	204.2	198.2	197.2	195.2
27.5°	208.2	205.2	207.2	203.2	209.2	212.3	199.2	185.1	180.1	179.1	178.1
30°	215.3	208.2	203.2	202.2	211.3	199.2	173.0	161.0	154.9	154.9	154.9
32.5°	225.3	215.3	200.2	205.2	208.2	173.0	144.9	130.8	125.7	124.7	125.7
35°	236.4	221.3	198.2	212.3	197.2	143.9	113.7	100.6	100.6	100.6	102.6
37.5°	252.5	230.4	199.2	219.3	176.0	113.7	85.5	80.5	79.5	78.5	78.5
40°	271.6	244.5	205.2	226.3	152.9	87.5	70.4	67.4	63.4	61.4	62.4
42.5°	292.7	260.5	214.3	231.4	128.8	69.4	63.4	59.4	57.3	56.3	57.3
45°	317.9	282.7	230.4	233.4	107.6	64.4	62.4	59.4	57.3	55.3	56.3
47.5°	345.0	304.8	250.5	230.4	93.6	66.4	66.4	63.4	57.3	52.3	52.3
50°	374.2	329.0	272.6	220.3	84.5	72.4	68.4	58.3	51.3	48.3	47.3
52.5°	404.4	356.1	297.8	205.2	82.5	70.4	60.4	51.3	47.3	44.3	43.3
55°	435.6	386.3	323.9	186.1	77.5	64.4	54.3	47.3	44.3	41.2	41.2
57.5°	466.8	415.5	353.1	165.0	65.4	57.3	50.3	45.3	42.3	40.2	40.2
60°	494.9	448.7	385.3	149.9	55.3	53.3	48.3	46.3	44.3	42.3	42.3
62.5°	527.1	485.9	418.5	132.8	48.3	52.3	50.3	48.3	44.3	43.3	42.3
65°	551.3	525.1	450.7	104.6	44.3	52.3	50.3	44.3	39.2	38.2	38.2
67°	566.4	559.3	475.8	77.5	41.2	49.3	45.3	39.2	35.2	35.2	34.2
67.5°	570.4	567.4	481.9	70.4	40.2	47.3	44.3	38.2	34.2	34.2	33.2
70°	584.5	616.7	499.0	45.3	34.2	39.2	39.2	34.2	30.2	30.2	29.2
72.5°	592.5	651.9	483.9	33.2	30.2	34.2	35.2	30.2	26.2	26.2	25.1
75°	594.5	656.9	407.4	27.2	26.2	30.2	31.2	27.2	22.1	21.1	20.1
77.5°	569.4	587.5	258.5	22.1	22.1	26.2	26.2	24.1	18.1	18.1	17.1
80°	484.9	451.7	109.7	18.1	18.1	21.1	22.1	20.1	15.1	14.1	14.1
82.5°	267.6	172.0	29.2	13.1	13.1	16.1	18.1	16.1	11.1	11.1	9.1
85°	17.1	27.2	14.1	9.1	9.1	11.1	13.1	10.1	7.0	6.0	5.0
87.5°	4.0	9.1	6.0	3.0	3.0	4.0	6.0	3.0	2.0	1.0	1.0
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)