

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: P594521

Luminaire Tested: **ISS-PA1A-AMB-U-T4W-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594521
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-22)
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-T4W-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) NARROW BAND AMBER, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 987 lumens
Efficiency: N/A
Efficacy: 31.1 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B0 - U0 - G1

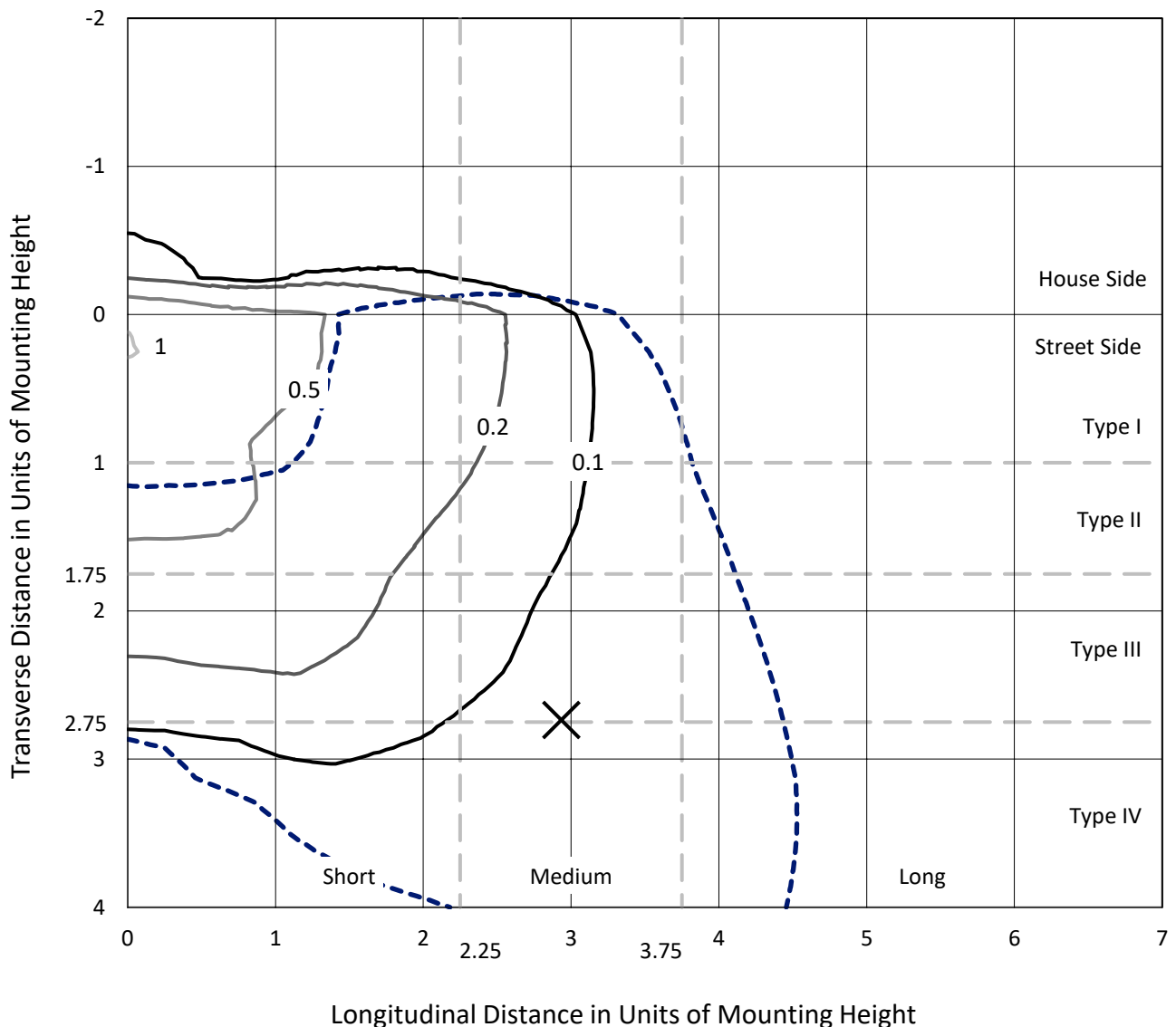
Input Watts (W): 31.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

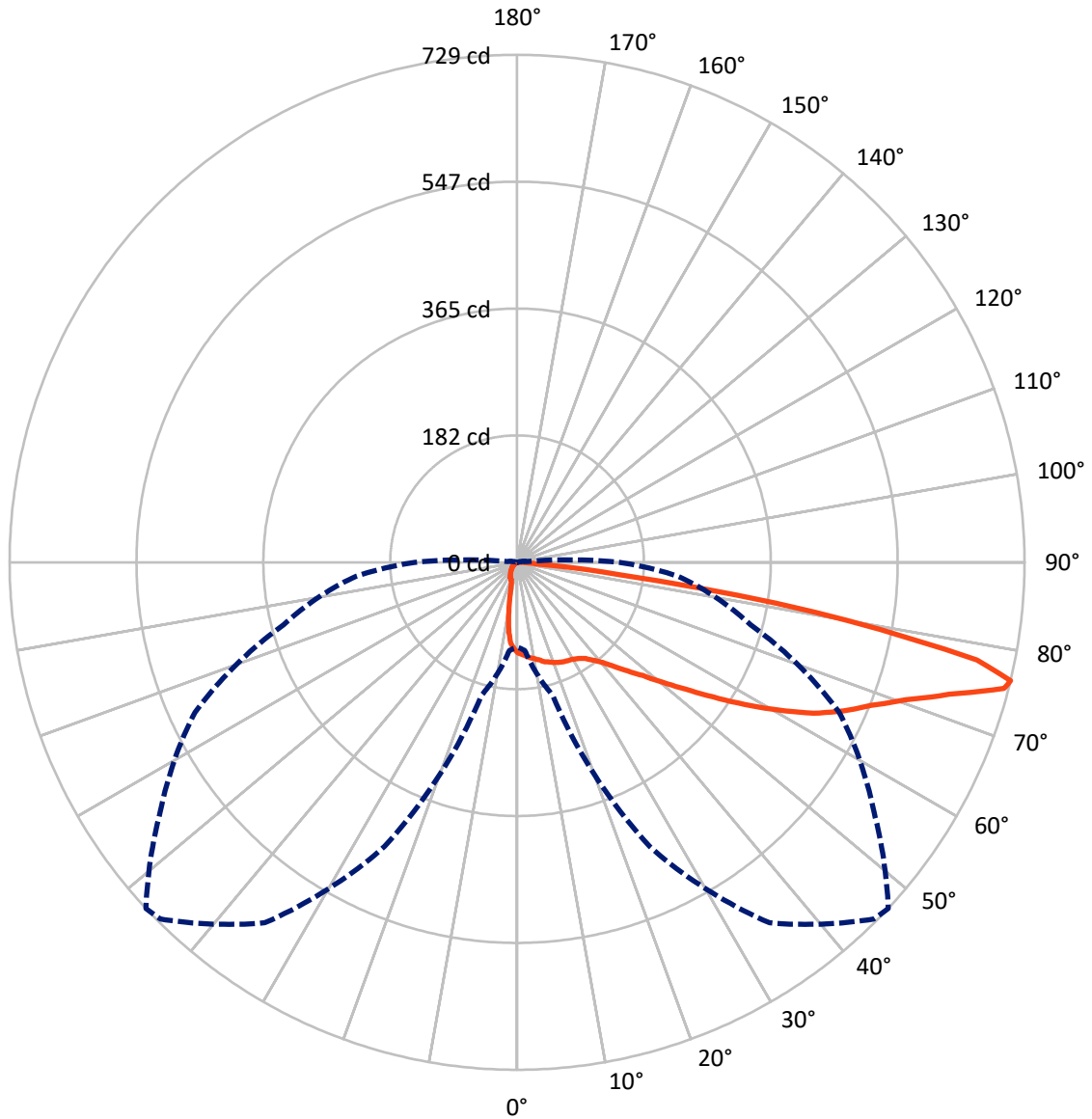
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 76-Deg Vertical

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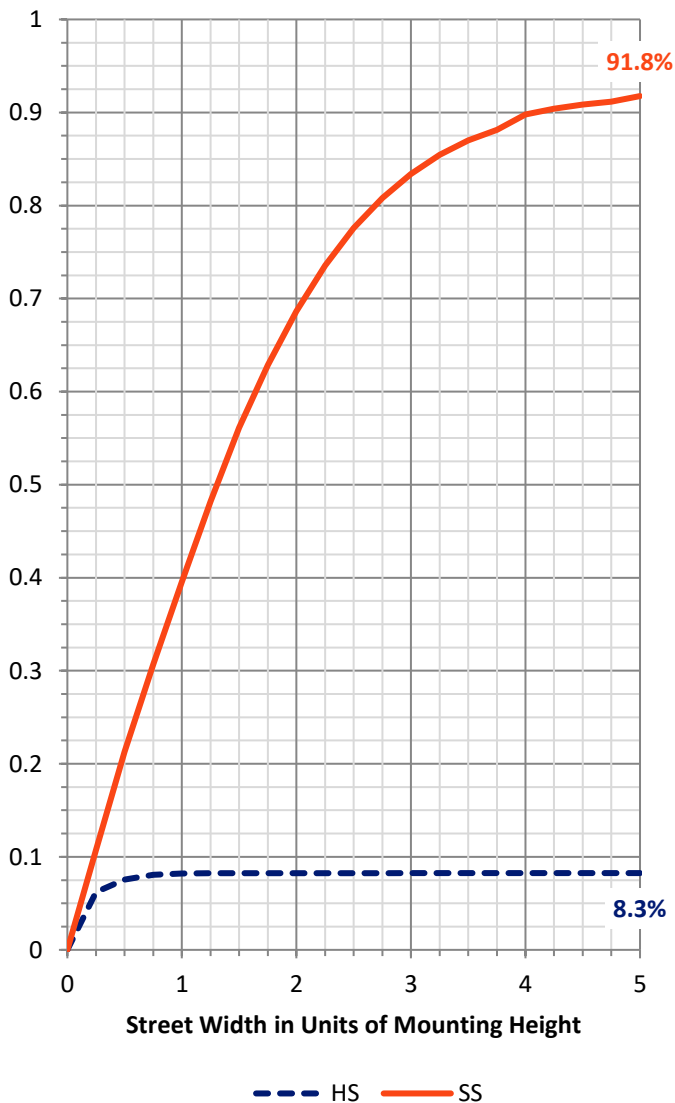
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	82.0	0.0	82.0
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	905.0	0.0	905.0
	% Fixture	91.7	0.0	91.7
Total	Lumens	987.0	0.0	987.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.3	1.1
10°-20°	29.0	2.9
20°-30°	45.5	4.6
30°-40°	64.3	6.5
40°-50°	104.8	10.6
50°-60°	188.3	19.1
60°-70°	286.0	29.0
70°-80°	237.0	24.0
80°-90°	20.7	2.1
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°	987.0	100.0
0°-180°	987.0	100.0

Coefficient of Utilization

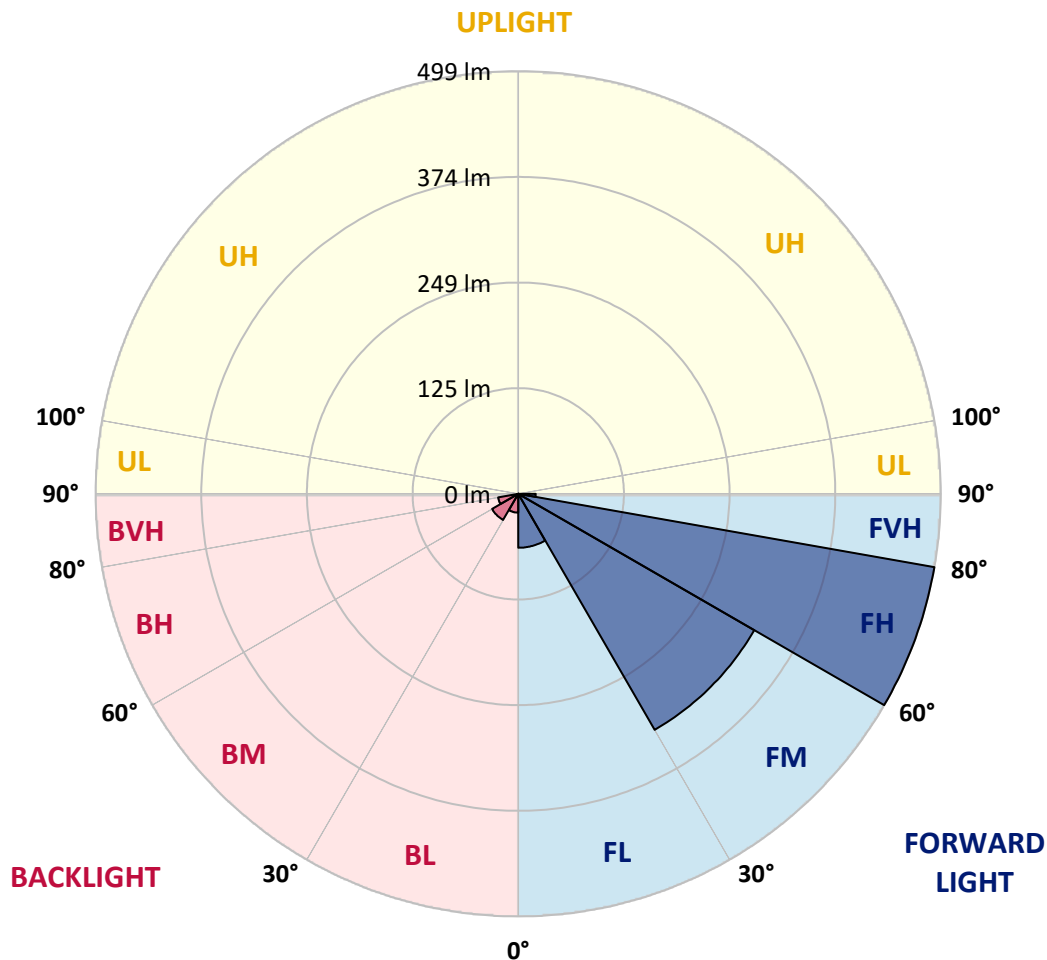


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	63.7	6.5			
FM (30°-60°)	321.7	32.6			
FH (60°-80°)	498.9	50.5			G0/660
FVH (80°-90°)	20.7	2.1			G1/100
BL (0°-30°)	22.2	2.2	B0/110		
BM (30°-60°)	35.7	3.6	B0/220		
BH (60°-80°)	24.1	2.4	B0/110		G0/110
BVH (80°-90°)	0.0	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-G1
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1
2.5°	135.5	135.5	135.5	134.4	134.4	132.3	132.3	131.2	131.2	130.1	129.1
5°	142.0	142.0	140.9	139.8	138.7	136.6	135.5	133.4	131.2	129.1	126.9
7.5°	149.5	149.5	148.4	145.2	143.1	138.7	138.7	135.5	132.3	129.1	125.8
10°	154.9	154.9	153.8	150.6	146.3	142.0	140.9	137.7	134.4	131.2	126.9
12.5°	160.3	160.3	159.2	154.9	149.5	145.2	144.1	142.0	137.7	132.3	128.0
15°	163.5	164.6	163.5	158.1	152.7	148.4	148.4	145.2	140.9	136.6	130.1
17.5°	164.6	165.6	164.6	159.2	153.8	151.7	150.6	148.4	144.1	138.7	131.2
20°	164.6	165.6	165.6	159.2	154.9	154.9	153.8	152.7	148.4	142.0	134.4
22.5°	162.4	163.5	164.6	158.1	156.0	156.0	156.0	156.0	151.7	145.2	136.6
25°	161.3	161.3	163.5	157.0	156.0	157.0	158.1	159.2	156.0	149.5	140.9
27.5°	160.3	160.3	161.3	156.0	156.0	159.2	159.2	161.3	160.3	154.9	145.2
30°	161.3	161.3	162.4	157.0	157.0	161.3	161.3	164.6	164.6	159.2	149.5
32.5°	164.6	164.6	166.7	160.3	161.3	164.6	164.6	167.8	169.9	165.6	156.0
35°	169.9	169.9	172.1	165.6	166.7	169.9	169.9	173.2	176.4	173.2	163.5
37.5°	180.7	178.5	181.8	174.2	175.3	177.5	178.5	181.8	185.0	182.8	172.1
40°	196.8	194.7	200.1	186.1	183.9	189.3	189.3	191.5	195.8	194.7	183.9
42.5°	226.9	228.0	233.4	202.2	197.9	204.4	204.4	205.4	209.7	209.7	201.1
45°	276.4	276.4	278.6	230.2	216.2	221.6	222.6	224.8	228.0	230.2	221.6
47.5°	330.2	327.0	314.1	273.2	244.2	243.1	243.1	247.4	250.6	257.1	249.5
50°	387.2	379.7	365.7	325.9	284.0	270.0	271.0	272.1	280.7	289.3	284.0
52.5°	424.9	420.5	417.3	389.4	335.6	303.3	302.2	304.4	315.1	325.9	320.5
55°	428.1	427.0	444.2	448.5	392.6	345.3	341.0	341.0	356.0	367.8	361.4
57.5°	432.4	432.4	458.2	486.2	453.9	391.5	385.1	381.8	398.0	407.6	404.4
60°	453.9	453.9	480.8	523.8	501.2	437.8	431.3	427.0	442.1	455.0	450.7
62.5°	501.2	502.3	527.0	569.0	547.5	480.8	477.6	468.9	489.4	499.1	495.8
65°	493.7	500.1	574.4	619.5	598.0	518.4	515.2	508.7	533.5	549.6	544.2
67.5°	431.3	439.9	551.8	664.7	648.6	552.8	548.5	545.3	576.5	595.9	595.9
70°	386.1	394.7	467.9	679.8	679.8	599.1	591.6	583.0	617.4	630.3	614.2
72.5°	311.9	329.1	428.1	653.9	698.0	650.7	648.6	614.2	637.8	586.2	519.5
75°	139.8	146.3	292.6	536.7	673.3	722.8	722.8	641.0	567.9	438.8	318.4
76°	121.5	126.9	197.9	450.7	632.4	724.9	729.2	626.0	510.9	347.4	232.3
77.5°	88.2	92.5	126.9	296.9	512.0	670.1	675.5	565.8	386.1	222.6	114.0
80°	16.1	18.3	34.4	97.9	253.8	407.6	433.5	339.9	183.9	59.2	15.1
82.5°	5.4	6.5	14.0	36.6	88.2	140.9	148.4	123.7	46.2	12.9	5.4
85°	1.1	2.2	5.4	19.4	33.3	21.5	28.0	29.0	15.1	7.5	1.1
87.5°	0.0	0.0	2.2	5.4	6.5	4.3	4.3	10.8	6.5	5.4	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1
2.5°	129.1	128.0	126.9	125.8	124.8	123.7	123.7	122.6	122.6	121.5	121.5
5°	125.8	124.8	122.6	120.5	118.3	116.2	112.9	108.6	104.3	103.3	103.3
7.5°	124.8	122.6	119.4	115.1	107.6	95.7	85.0	74.2	69.9	65.6	66.7
10°	124.8	122.6	117.2	107.6	88.2	67.8	50.6	40.9	37.6	36.6	36.6
12.5°	124.8	121.5	115.1	94.7	66.7	41.9	31.2	29.0	30.1	31.2	31.2
15°	125.8	122.6	111.9	79.6	44.1	29.0	26.9	26.9	28.0	30.1	30.1
17.5°	126.9	122.6	105.4	61.3	30.1	26.9	25.8	25.8	26.9	28.0	29.0
20°	130.1	124.8	97.9	44.1	26.9	25.8	25.8	24.7	25.8	26.9	28.0
22.5°	132.3	125.8	87.1	31.2	24.7	24.7	23.7	23.7	23.7	25.8	25.8
25°	135.5	129.1	76.4	24.7	22.6	23.7	22.6	22.6	22.6	23.7	24.7
27.5°	139.8	132.3	64.5	21.5	21.5	21.5	21.5	21.5	20.4	21.5	22.6
30°	144.1	136.6	50.6	20.4	19.4	19.4	19.4	19.4	18.3	19.4	19.4
32.5°	150.6	142.0	37.6	18.3	18.3	17.2	17.2	17.2	17.2	17.2	17.2
35°	158.1	147.4	28.0	17.2	16.1	16.1	15.1	15.1	15.1	15.1	15.1
37.5°	167.8	152.7	21.5	16.1	15.1	14.0	12.9	12.9	11.8	11.8	12.9
40°	179.6	158.1	18.3	15.1	14.0	11.8	10.8	9.7	8.6	8.6	8.6
42.5°	196.8	164.6	16.1	14.0	12.9	10.8	8.6	7.5	5.4	5.4	5.4
45°	218.3	173.2	15.1	14.0	14.0	9.7	7.5	5.4	3.2	3.2	3.2
47.5°	248.5	182.8	14.0	12.9	12.9	7.5	4.3	2.2	1.1	2.2	2.2
50°	286.1	196.8	12.9	11.8	11.8	6.5	3.2	1.1	0.0	1.1	1.1
52.5°	324.8	211.9	11.8	10.8	9.7	4.3	1.1	0.0	0.0	0.0	0.0
55°	363.5	222.6	11.8	9.7	7.5	3.2	1.1	0.0	0.0	0.0	0.0
57.5°	413.0	232.3	10.8	8.6	5.4	1.1	0.0	0.0	0.0	0.0	0.0
60°	464.6	238.8	9.7	7.5	3.2	1.1	0.0	0.0	0.0	0.0	0.0
62.5°	518.4	243.1	7.5	5.4	2.2	1.1	0.0	0.0	0.0	0.0	0.0
65°	573.3	242.0	5.4	3.2	1.1	1.1	0.0	0.0	0.0	0.0	0.0
67.5°	612.0	232.3	3.2	2.2	1.1	1.1	0.0	0.0	0.0	0.0	0.0
70°	569.0	187.1	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	422.7	104.3	2.2	1.1	0.0	1.1	0.0	0.0	0.0	0.0	0.0
75°	216.2	26.9	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76°	147.4	14.0	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	60.2	6.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	9.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)