

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: P271499

Luminaire Tested: **ISS-AF-350-LED-E1-T4FT-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271499
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29760)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISS-AF-350-LED-E1-T4FT-7027
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV FORWARD THROW
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2050.3 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G1

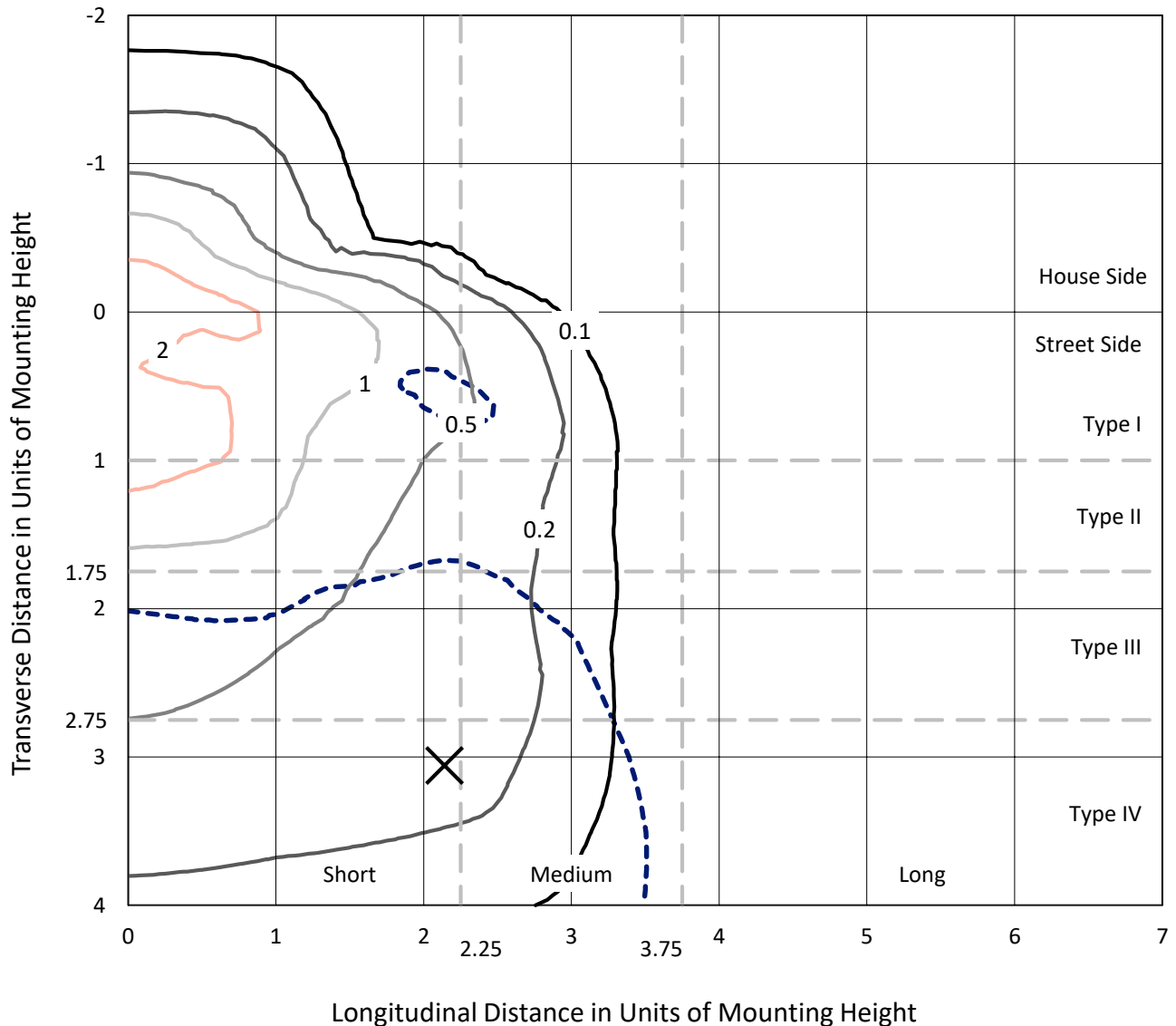
Input Watts (W): 20.09
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

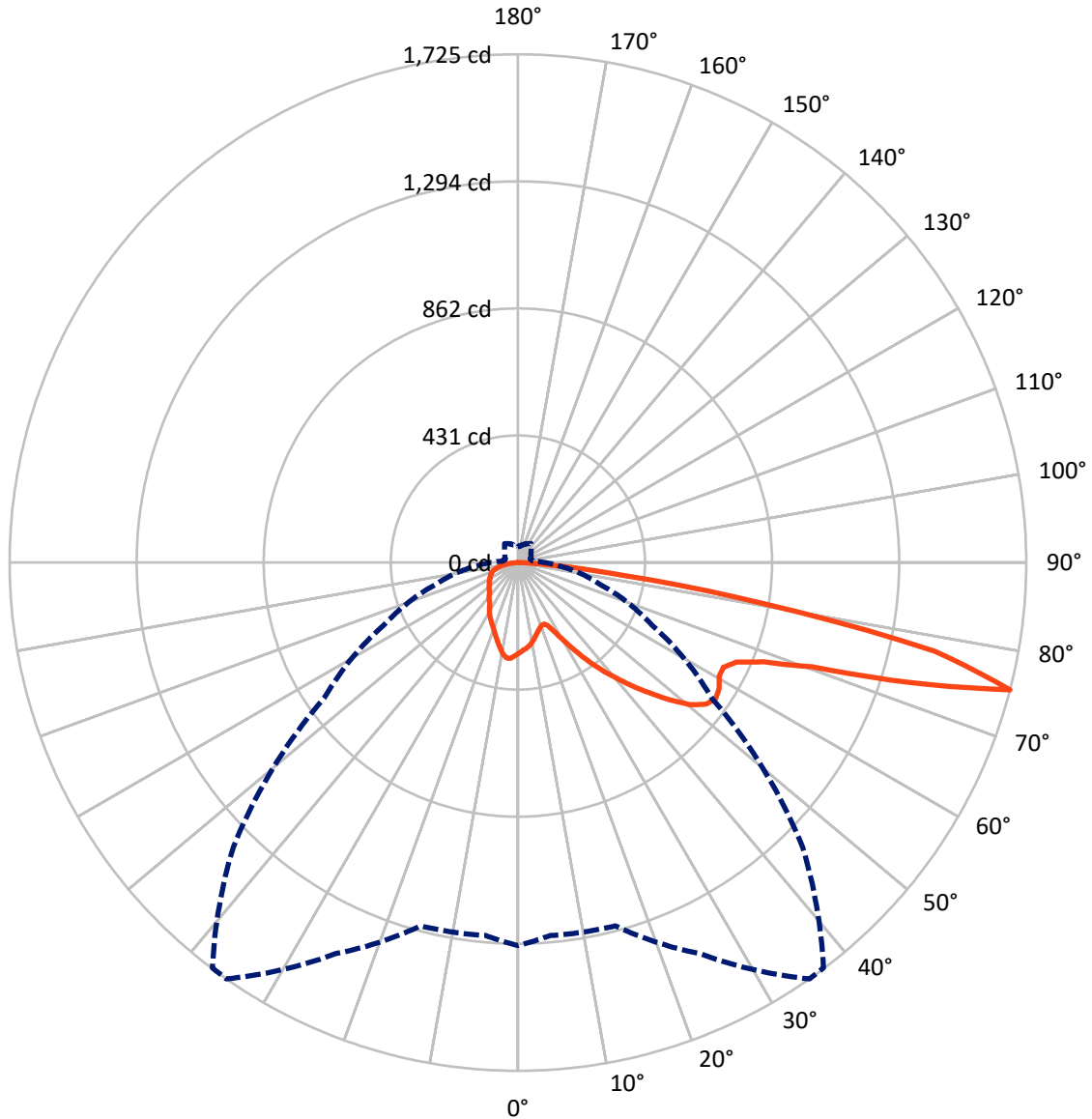
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	411.5	0.0	411.5
	% Fixture	20.1	0.0	20.1
Street Side	Lumens	1638.8	0.0	1638.8
	% Fixture	79.9	0.0	79.9
Total	Lumens	2050.3	0.0	2050.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.9	1.4
10°-20°	76.3	3.7
20°-30°	120.7	5.9
30°-40°	194.8	9.5
40°-50°	288.2	14.1
50°-60°	370.6	18.1
60°-70°	458.9	22.4
70°-80°	462.4	22.6
80°-90°	49.4	2.4
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°	2050.3	100.0
0°-180°	2050.3	100.0



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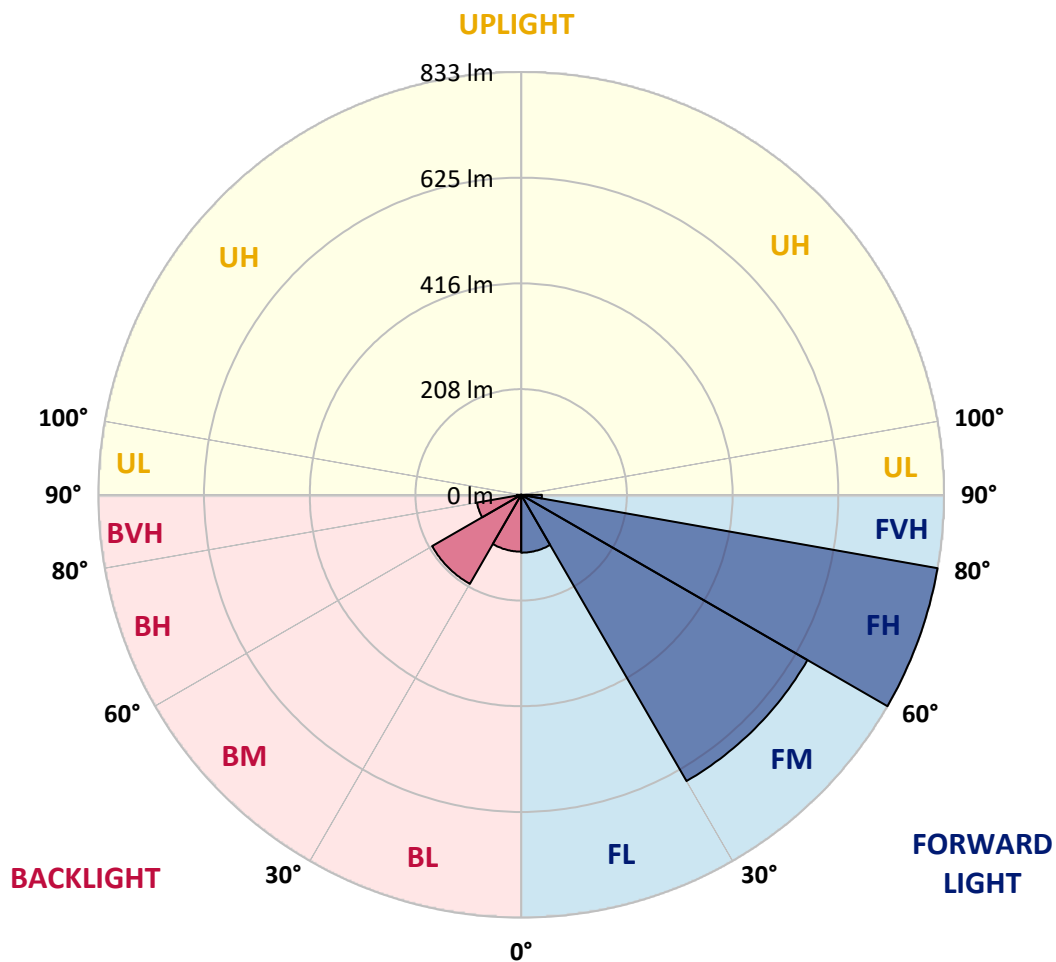
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	114.0	5.6			
FM	(30°-60°)	651.1	31.8			
FH	(60°-80°)	832.9	40.6			G1/1800
FVH	(80°-90°)	40.8	2.0			G1/100
BL	(0°-30°)	111.9	5.5	B1/500		
BM	(30°-60°)	202.6	9.9	B0/220		
BH	(60°-80°)	88.4	4.3	B0/110		G0/110
BVH	(80°-90°)	8.5	0.4			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	308.0	308.0	308.0	308.0	308.0	308.0	308.0	308.0	308.0	308.0	308.0
2.5°	299.1	298.5	297.8	297.8	299.1	299.1	299.9	300.4	301.1	303.2	306.0
5°	290.9	290.2	289.5	290.2	292.3	292.3	294.4	295.7	297.1	300.4	303.9
7.5°	279.9	279.9	279.2	282.0	284.0	283.3	286.1	287.5	290.9	294.4	299.9
10°	265.6	265.6	265.6	269.0	272.5	272.5	274.4	277.8	280.6	285.4	292.3
12.5°	253.2	252.5	252.5	255.3	259.4	260.1	263.6	268.3	271.7	277.8	285.4
15°	249.1	247.8	244.4	244.4	246.4	246.4	251.9	258.7	264.2	270.4	279.2
17.5°	249.8	247.8	238.9	236.2	236.2	236.8	242.4	249.8	256.6	264.2	275.8
20°	255.9	252.5	236.2	230.0	228.6	229.2	234.1	241.6	249.8	260.1	273.2
22.5°	282.7	277.1	246.4	232.8	226.6	226.6	229.2	237.5	247.8	261.5	277.8
25°	344.3	335.3	280.6	255.9	237.5	235.4	230.7	238.9	251.2	267.7	291.6
27.5°	407.2	398.4	323.1	296.4	267.7	261.5	243.7	245.8	259.4	281.3	312.1
30°	459.9	452.5	376.5	345.7	307.3	300.4	273.2	260.1	273.8	300.4	343.0
32.5°	464.1	460.7	433.9	402.5	355.9	346.4	310.1	289.5	296.4	326.4	376.5
35°	502.4	499.6	485.3	455.2	408.5	397.7	359.3	327.8	325.8	355.2	414.7
37.5°	540.0	536.6	527.0	506.6	463.3	454.5	424.4	373.8	359.3	388.8	452.5
40°	575.6	570.9	558.6	546.9	515.4	515.4	483.2	417.5	391.5	418.3	483.8
42.5°	641.3	626.3	593.4	584.5	575.6	575.6	528.5	447.6	417.5	450.4	514.0
45°	704.3	690.0	645.4	627.6	632.5	629.7	564.7	464.7	440.8	480.5	542.8
47.5°	754.3	741.3	696.1	683.8	697.4	686.6	594.8	478.4	470.3	512.7	566.7
50°	798.8	768.1	724.1	740.7	757.7	739.2	621.4	499.0	499.6	546.9	601.7
52.5°	737.9	734.5	744.1	782.3	798.8	778.2	645.4	525.0	531.2	590.6	641.3
55°	664.7	663.9	720.0	794.7	814.5	795.4	661.2	556.5	564.0	644.7	691.3
57.5°	650.2	643.4	681.7	768.7	804.9	791.2	669.3	586.0	595.5	713.3	740.7
60°	696.7	683.8	677.6	740.7	784.4	777.6	679.7	620.8	633.8	791.2	786.5
62.5°	798.1	780.3	736.5	742.7	782.3	776.9	704.3	661.9	677.0	869.3	812.4
65°	932.2	919.2	849.3	799.4	814.5	806.9	748.7	714.0	722.1	925.4	783.1
67.5°	1079.4	1061.5	985.6	917.2	898.0	883.7	819.3	775.5	746.0	917.2	704.3
70°	1245.7	1226.5	1160.9	1090.4	1057.6	1041.8	942.5	828.9	737.1	826.8	555.8
72.5°	1450.3	1424.4	1388.2	1395.7	1390.1	1346.3	1138.9	846.7	672.1	615.2	331.9
75°	1299.8	1270.3	1276.5	1464.8	1724.8	1722.8	1366.2	802.8	501.1	290.2	143.7
77.5°	466.1	515.4	760.4	1097.2	1446.3	1444.3	1057.6	502.4	215.0	123.9	87.0
80°	117.0	119.0	188.9	450.4	844.7	837.8	599.6	189.6	89.7	75.3	59.6
82.5°	37.7	40.3	69.1	155.4	361.4	353.1	186.2	62.3	56.1	48.6	36.3
85°	12.4	12.4	24.6	53.4	119.0	114.4	37.7	22.5	30.8	25.3	16.3
87.5°	0.0	0.0	0.7	1.3	2.8	1.3	0.0	1.3	4.1	4.9	3.4
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°	308.0	308.0	308.0	308.0	308.0	308.0	308.0	308.0	308.0	308.0	308.0
2.5°	308.0	307.3	310.1	312.1	312.8	314.9	316.9	318.3	317.6	316.9	316.9
5°	307.3	308.0	312.8	316.9	320.3	323.7	326.4	327.8	327.2	327.2	327.2
7.5°	303.2	306.0	311.4	318.3	323.1	325.2	325.8	323.7	322.4	320.3	320.3
10°	296.4	300.4	309.4	316.9	319.0	316.2	312.1	308.0	302.5	299.1	299.1
12.5°	290.9	295.7	306.6	312.8	310.1	303.2	294.4	287.5	282.0	277.8	277.1
15°	286.1	292.3	303.9	305.2	299.1	287.5	275.8	268.3	262.1	259.4	259.4
17.5°	282.7	290.9	301.1	297.1	284.8	269.7	258.7	252.5	247.8	245.1	244.4
20°	283.3	293.7	298.5	286.8	269.0	253.2	243.0	239.6	236.2	234.7	234.7
22.5°	290.9	300.4	297.8	277.8	254.6	236.8	230.0	229.2	227.9	226.6	225.8
25°	307.3	314.1	299.9	269.0	239.6	221.8	218.4	220.4	219.7	218.4	218.4
27.5°	329.9	331.3	303.2	260.1	223.0	207.4	207.4	210.8	209.5	207.4	208.8
30°	357.3	349.8	304.5	245.8	203.9	193.8	195.8	197.8	196.4	193.8	193.8
32.5°	386.7	368.9	304.5	227.2	185.5	181.4	182.1	182.7	180.0	176.6	176.6
35°	415.5	387.3	301.1	205.4	171.0	169.2	168.4	171.0	169.2	164.3	164.3
37.5°	442.9	401.8	292.3	182.7	160.2	159.4	161.5	160.2	157.5	150.6	149.2
40°	462.0	411.3	274.4	164.3	151.3	155.4	154.0	146.4	142.4	137.6	137.6
42.5°	479.2	416.2	252.5	149.8	145.1	150.6	145.1	135.6	130.1	129.4	130.1
45°	494.9	420.2	231.3	138.2	137.6	145.1	138.2	128.0	121.8	121.8	122.5
47.5°	509.9	424.4	210.1	127.3	128.6	136.9	132.8	122.5	116.4	112.3	112.3
50°	534.0	433.9	179.3	115.7	118.4	130.1	128.6	117.0	110.2	104.0	102.7
52.5°	562.6	450.4	145.7	103.3	110.9	123.9	123.9	112.3	104.7	96.5	95.1
55°	601.0	468.2	117.0	94.4	103.3	117.0	119.0	110.2	99.3	91.6	90.4
57.5°	639.3	474.3	94.4	85.6	93.7	110.2	115.7	106.1	93.1	87.7	87.0
60°	665.9	454.5	79.4	78.1	87.0	102.0	110.9	101.3	89.0	83.5	83.5
62.5°	661.9	394.3	71.1	73.2	81.5	95.8	106.8	97.2	86.2	82.8	82.1
65°	603.8	297.8	64.4	69.1	76.6	89.7	102.7	95.1	84.9	81.5	80.1
67.5°	508.6	197.8	59.6	65.0	71.9	84.9	99.3	92.3	80.8	78.7	77.3
70°	368.2	115.7	54.8	60.9	67.0	79.4	94.4	87.0	76.0	74.6	71.1
72.5°	199.2	72.5	49.2	55.4	60.9	72.5	87.0	80.1	69.8	64.4	62.3
75°	91.1	52.7	43.7	49.2	53.4	63.7	78.1	70.4	62.3	55.4	54.1
77.5°	60.9	39.6	37.0	42.4	44.5	53.4	69.1	56.1	48.6	43.7	42.4
80°	41.7	29.5	30.1	34.9	34.2	42.4	52.0	45.2	38.4	39.6	36.3
82.5°	26.7	20.5	23.3	24.6	24.0	32.2	40.3	34.2	28.7	24.0	20.5
85°	11.7	11.0	13.7	14.4	14.4	17.8	21.2	17.1	13.0	9.6	9.6
87.5°	0.7	1.3	1.3	2.1	1.3	0.7	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)