

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: P227841

Luminaire Tested: **ISS-AF-350-LED-E1-T4FT-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P227841  
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-8030  
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV FORWARD THROW  
Light Source: (16) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1926 lumens  
Efficiency: N/A  
Efficacy: 95.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G1

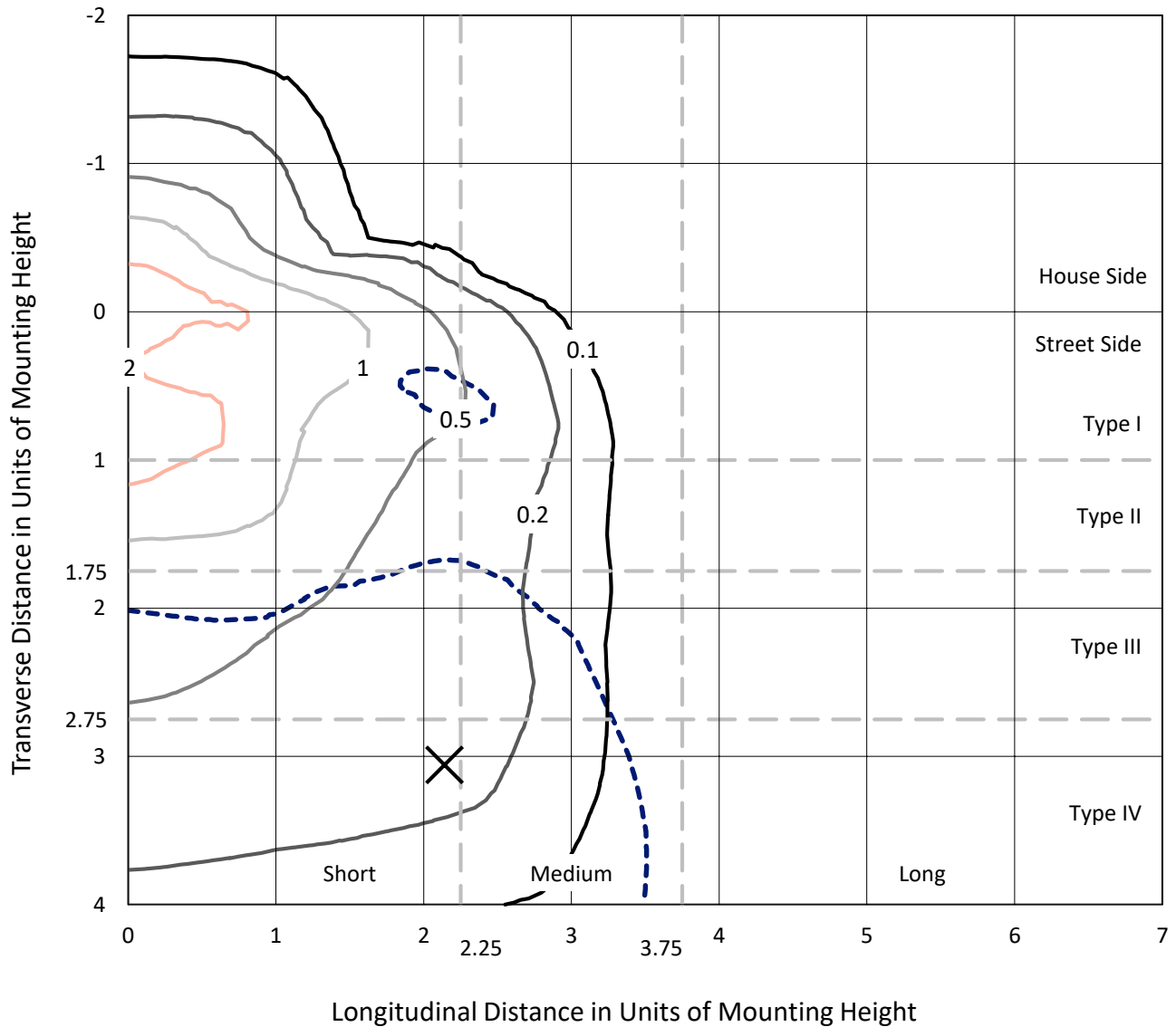
Input Watts (W): 20.09  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

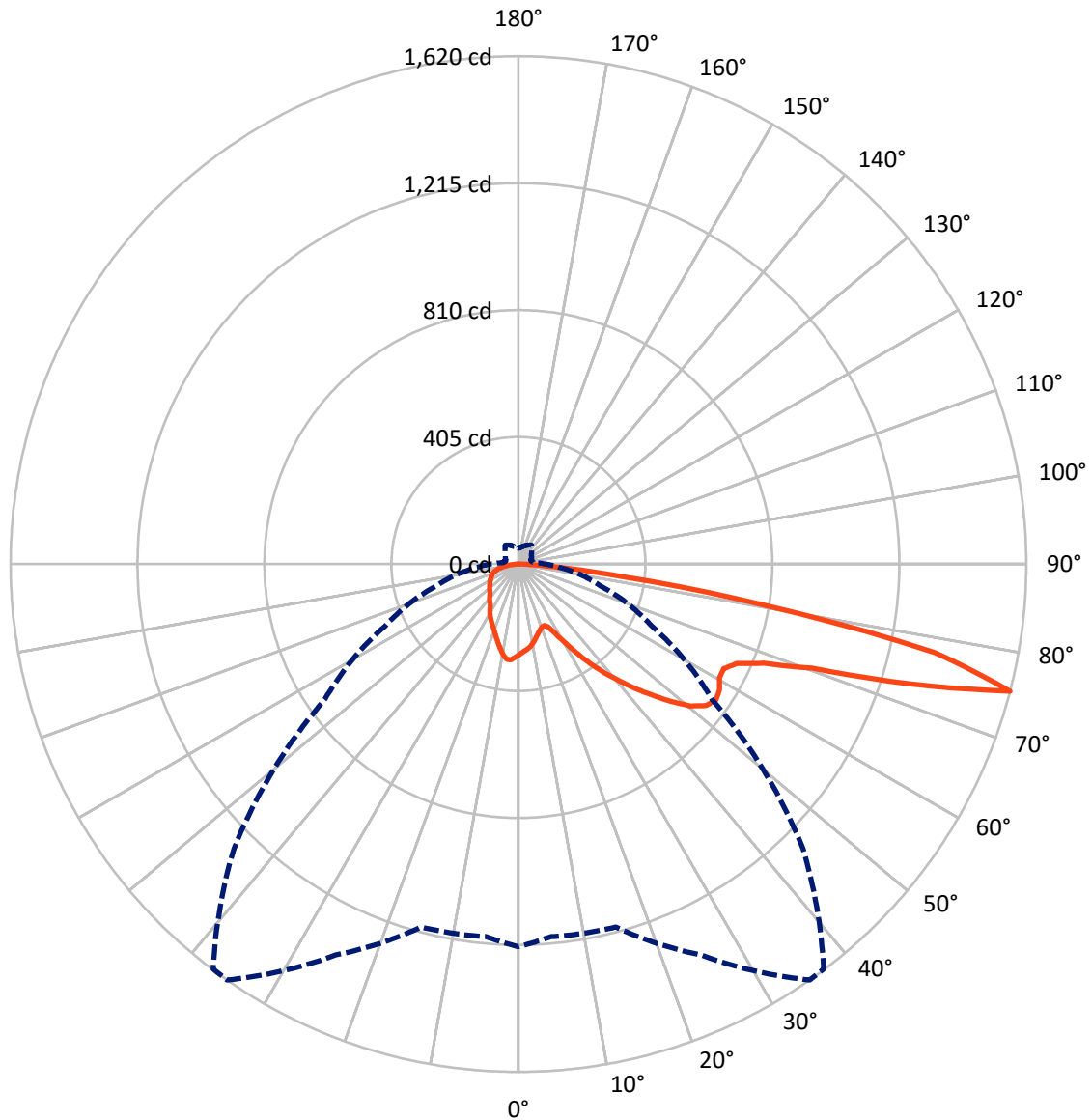
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.9 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
<b>House Side</b>	Lumens	386.6	0.0	386.6
	% Fixture	20.1	0.0	20.1
<b>Street Side</b>	Lumens	1539.4	0.0	1539.4
	% Fixture	79.9	0.0	79.9
<b>Total</b>	Lumens	1926.0	0.0	1926.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	27.2	1.4
10°-20°	71.7	3.7
20°-30°	113.4	5.9
30°-40°	183.0	9.5
40°-50°	270.8	14.1
50°-60°	348.2	18.1
60°-70°	431.1	22.4
70°-80°	434.4	22.6
80°-90°	46.4	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°	1926.0	100.0
0°-180°	1926.0	100.0

**Coefficient of Utilization**



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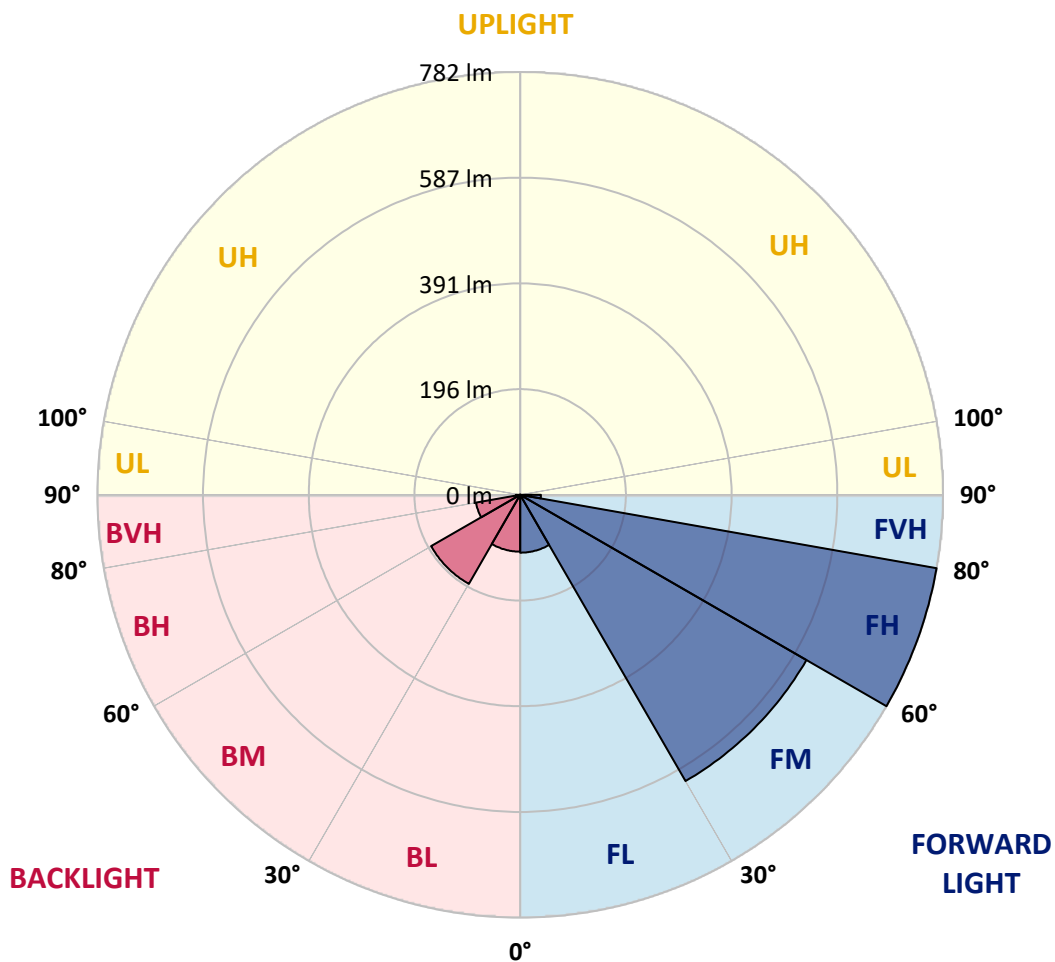
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	107.1	5.6			
FM	(30°-60°)	611.6	31.8			
FH	(60°-80°)	782.4	40.6			G1/1800
FVH	(80°-90°)	38.4	2.0			G1/100
BL	(0°-30°)	105.1	5.5	B0/110		
BM	(30°-60°)	190.4	9.9	B0/220		
BH	(60°-80°)	83.0	4.3	B0/110		G0/110
BVH	(80°-90°)	8.0	0.4			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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	289.3	289.3	289.3	289.3	289.3	289.3	289.3	289.3	289.3	289.3	289.3
2.5°	281.0	280.3	279.7	279.7	281.0	281.0	281.6	282.3	282.9	284.8	287.4
5°	273.3	272.6	272.0	272.6	274.5	274.5	276.5	277.8	279.0	282.3	285.5
7.5°	263.0	263.0	262.3	264.9	266.8	266.2	268.8	270.0	273.3	276.5	281.6
10°	249.5	249.5	249.5	252.7	255.9	255.9	257.8	261.0	263.6	268.1	274.5
12.5°	237.9	237.3	237.3	239.8	243.7	244.3	247.5	252.0	255.3	261.0	268.1
15°	234.0	232.8	229.5	229.5	231.5	231.5	236.6	243.0	248.2	254.0	262.3
17.5°	234.7	232.8	224.4	221.8	221.8	222.5	227.6	234.7	241.1	248.2	259.1
20°	240.5	237.3	221.8	216.0	214.7	215.4	219.9	227.0	234.7	244.3	256.5
22.5°	265.5	260.4	231.5	218.6	212.8	212.8	215.4	223.1	232.8	245.6	261.0
25°	323.4	315.1	263.6	240.5	223.1	221.2	216.7	224.4	236.0	251.4	273.9
27.5°	382.6	374.2	303.5	278.4	251.4	245.6	228.9	230.8	243.7	264.3	293.2
30°	432.1	425.0	353.6	324.7	288.7	282.3	256.5	244.3	257.2	282.3	322.1
32.5°	435.9	432.7	407.6	378.1	334.3	325.3	291.3	272.0	278.4	306.7	353.6
35°	471.9	469.4	455.9	427.6	383.8	373.6	337.6	308.0	306.1	333.7	389.6
37.5°	507.3	504.1	495.1	475.8	435.3	426.9	398.6	351.1	337.6	365.2	425.0
40°	540.7	536.2	524.7	513.7	484.2	484.2	453.9	392.2	367.8	392.9	454.6
42.5°	602.5	588.3	557.4	549.1	540.7	540.7	496.4	420.5	392.2	423.1	482.9
45°	661.6	648.1	606.3	589.6	594.1	591.5	530.4	436.6	414.1	451.4	509.9
47.5°	708.5	696.3	653.9	642.3	655.2	644.9	558.7	449.4	441.7	481.6	532.4
50°	750.3	721.4	680.3	695.7	711.8	694.4	583.8	468.7	469.4	513.7	565.2
52.5°	693.1	689.9	698.9	734.9	750.3	731.1	606.3	493.2	498.9	554.9	602.5
55°	624.3	623.7	676.4	746.5	765.1	747.1	621.1	522.7	529.8	605.7	649.4
57.5°	610.8	604.4	640.4	722.0	756.1	743.3	628.8	550.4	559.4	670.0	695.7
60°	654.5	642.3	636.5	695.7	736.8	730.4	638.5	583.2	595.4	743.3	738.8
62.5°	749.7	733.0	691.8	697.6	734.9	729.8	661.6	621.7	635.9	816.6	763.2
65°	875.7	863.5	797.9	751.0	765.1	758.1	703.4	670.6	678.3	869.3	735.6
67.5°	1014.0	997.2	925.9	861.6	843.6	830.1	769.6	728.5	700.8	861.6	661.6
70°	1170.2	1152.2	1090.5	1024.2	993.4	978.6	885.4	778.6	692.5	776.7	522.1
72.5°	1362.4	1338.0	1303.9	1311.0	1305.9	1264.7	1069.9	795.3	631.4	578.0	311.8
75°	1221.0	1193.3	1199.1	1375.9	1620.3	1618.3	1283.4	754.2	470.6	272.6	135.0
77.5°	437.9	484.2	714.3	1030.7	1358.6	1356.7	993.4	471.9	201.9	116.4	81.7
80°	109.9	111.9	177.5	423.1	793.4	787.0	563.2	178.1	84.2	70.7	55.9
82.5°	35.4	37.9	64.9	146.0	339.5	331.8	174.9	58.5	52.7	45.7	34.1
85°	11.6	11.6	23.1	50.2	111.9	107.4	35.4	21.2	28.9	23.8	15.4
87.5°	0.0	0.0	0.6	1.3	2.6	1.3	0.0	1.3	3.9	4.5	3.2
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°	289.3	289.3	289.3	289.3	289.3	289.3	289.3	289.3	289.3	289.3	289.3
2.5°	289.3	288.7	291.3	293.2	293.8	295.8	297.7	299.0	298.3	297.7	297.7
5°	288.7	289.3	293.8	297.7	300.9	304.1	306.7	308.0	307.3	307.3	307.3
7.5°	284.8	287.4	292.5	299.0	303.5	305.4	306.1	304.1	302.8	300.9	300.9
10°	278.4	282.3	290.6	297.7	299.6	297.0	293.2	289.3	284.2	281.0	281.0
12.5°	273.3	277.8	288.0	293.8	291.3	284.8	276.5	270.0	264.9	261.0	260.4
15°	268.8	274.5	285.5	286.8	281.0	270.0	259.1	252.0	246.3	243.7	243.7
17.5°	265.5	273.3	282.9	279.0	267.5	253.3	243.0	237.3	232.8	230.2	229.5
20°	266.2	275.8	280.3	269.4	252.7	237.9	228.3	225.0	221.8	220.5	220.5
22.5°	273.3	282.3	279.7	261.0	239.2	222.5	216.0	215.4	214.1	212.8	212.2
25°	288.7	295.1	281.6	252.7	225.0	208.3	205.1	207.0	206.4	205.1	205.1
27.5°	309.9	311.2	284.8	244.3	209.6	194.8	194.8	198.0	196.7	194.8	196.1
30°	335.6	328.6	286.1	230.8	191.6	182.0	183.9	185.8	184.5	182.0	182.0
32.5°	363.3	346.6	286.1	213.5	174.2	170.4	171.0	171.7	169.1	165.9	165.9
35°	390.3	363.9	282.9	192.9	160.7	158.8	158.2	160.7	158.8	154.3	154.3
37.5°	416.0	377.4	274.5	171.7	150.5	149.8	151.7	150.5	147.9	141.5	140.2
40°	434.0	386.4	257.8	154.3	142.1	146.0	144.7	137.6	133.7	129.2	129.2
42.5°	450.1	390.9	237.3	140.8	136.3	141.5	136.3	127.3	122.2	121.5	122.2
45°	464.9	394.8	217.3	129.9	129.2	136.3	129.9	120.2	114.4	114.4	115.1
47.5°	479.0	398.6	197.4	119.6	120.9	128.6	124.7	115.1	109.3	105.4	105.4
50°	501.5	407.6	168.5	108.7	111.2	122.2	120.9	109.9	103.5	97.7	96.4
52.5°	528.5	423.1	137.0	97.1	104.2	116.4	116.4	105.4	98.4	90.7	89.4
55°	564.5	439.8	109.9	88.7	97.1	109.9	111.9	103.5	93.2	86.2	84.9
57.5°	600.5	445.6	88.7	80.4	88.1	103.5	108.7	99.7	87.4	82.3	81.7
60°	625.6	426.9	74.6	73.3	81.7	95.8	104.2	95.2	83.6	78.4	78.4
62.5°	621.7	370.3	66.9	68.8	76.5	90.0	100.3	91.3	81.0	77.8	77.2
65°	567.1	279.7	60.4	64.9	72.0	84.2	96.4	89.4	79.7	76.5	75.2
67.5°	477.7	185.8	55.9	61.1	67.5	79.7	93.2	86.8	75.9	73.9	72.7
70°	345.9	108.7	51.4	57.2	63.0	74.6	88.7	81.7	71.4	70.1	66.9
72.5°	187.1	68.2	46.3	52.1	57.2	68.2	81.7	75.2	65.6	60.4	58.5
75°	85.5	49.5	41.1	46.3	50.2	59.8	73.3	66.2	58.5	52.1	50.8
77.5°	57.2	37.3	34.7	39.9	41.8	50.2	64.9	52.7	45.7	41.1	39.9
80°	39.2	27.6	28.3	32.8	32.1	39.9	48.9	42.4	36.0	37.3	34.1
82.5°	25.1	19.3	21.9	23.1	22.5	30.2	37.9	32.1	27.0	22.5	19.3
85°	10.9	10.3	12.9	13.5	13.5	16.7	19.9	16.1	12.2	9.0	9.0
87.5°	0.6	1.3	1.3	1.9	1.3	0.6	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)