

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: P594310

Luminaire Tested: **ISC-PA1E-740-U-T2U-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594310  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISC-PA1E-740-U-T2U-HSS  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 70 CRI, 4000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7694 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

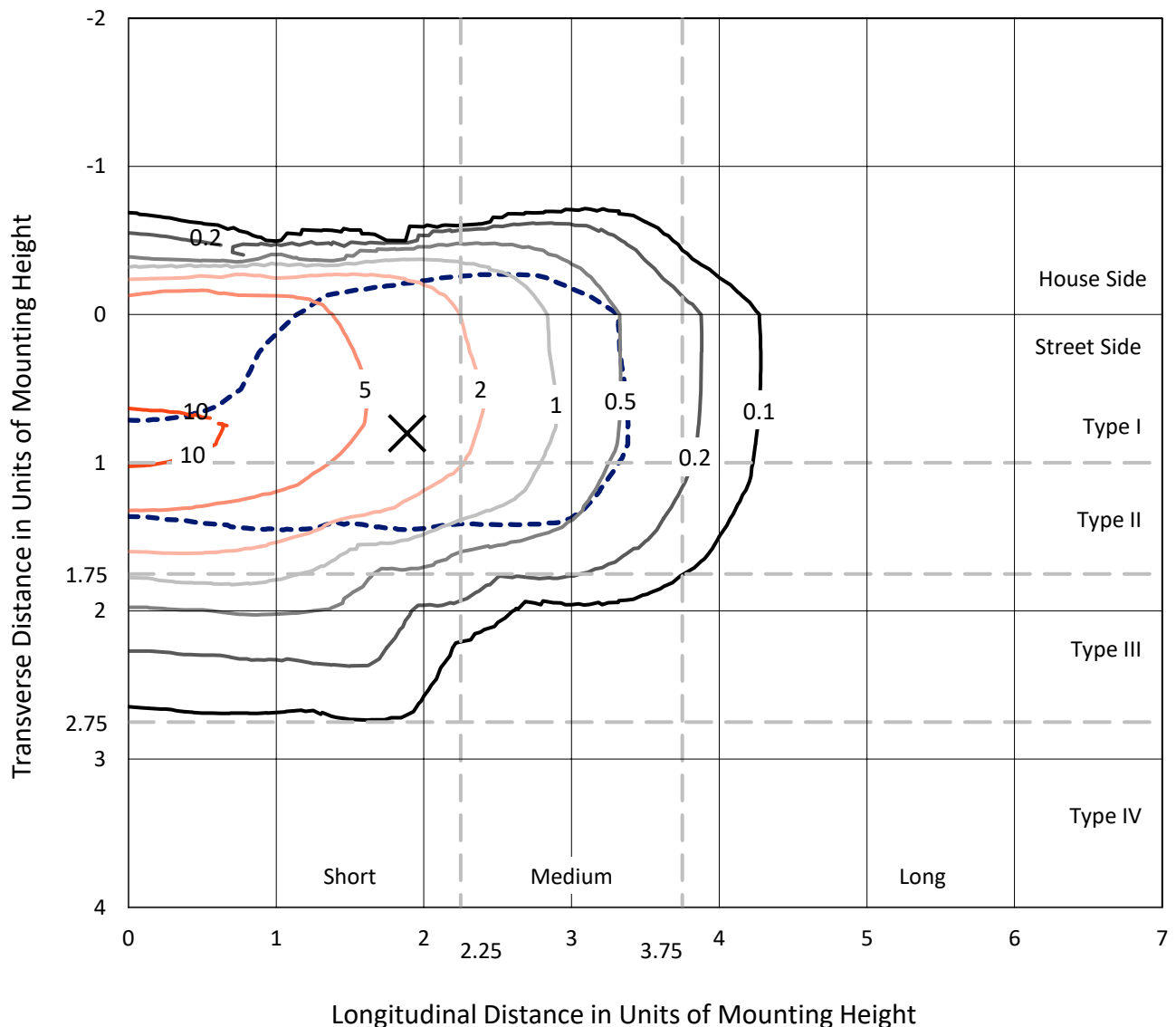
Input Watts (W): 82.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

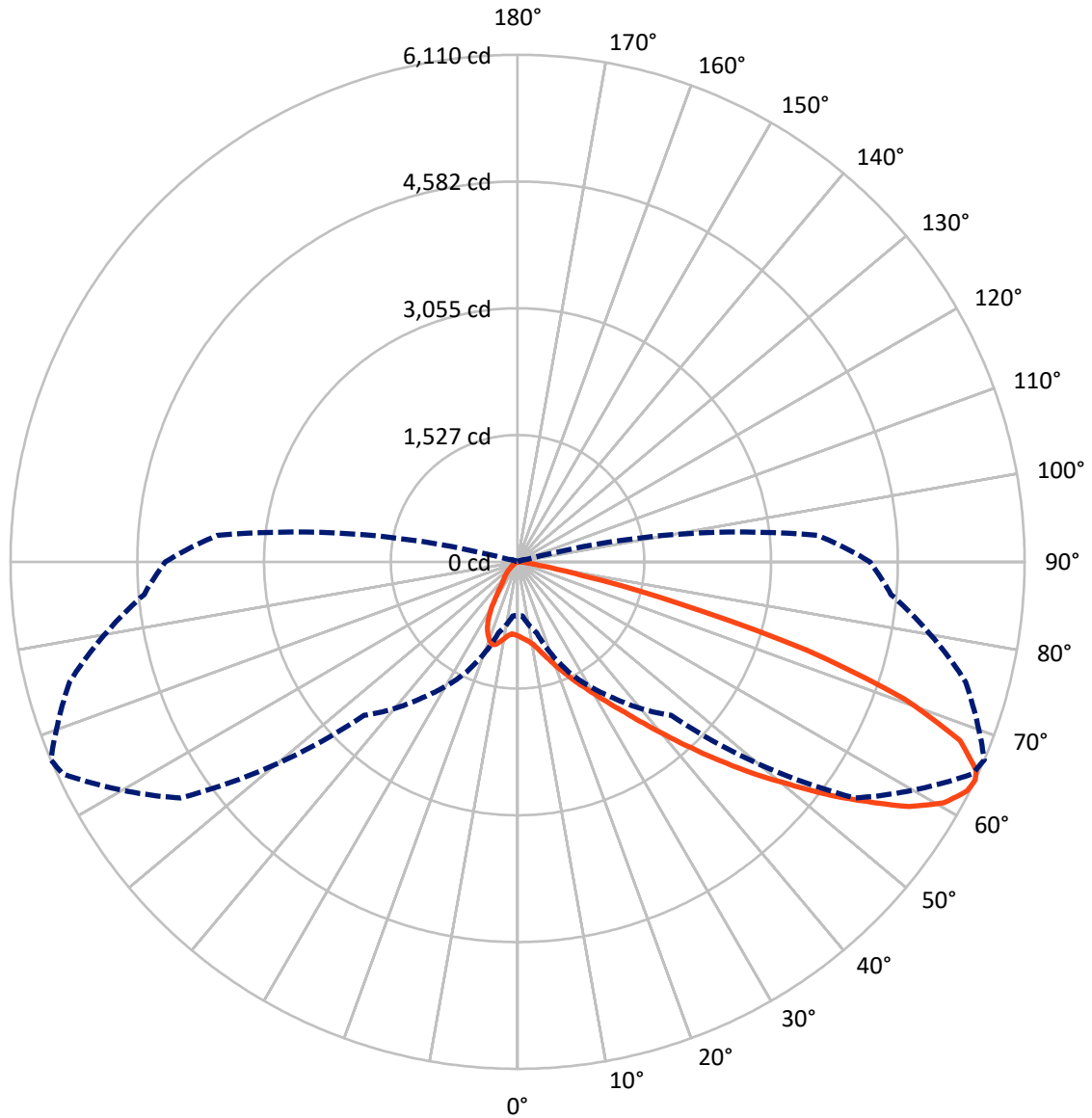
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 11.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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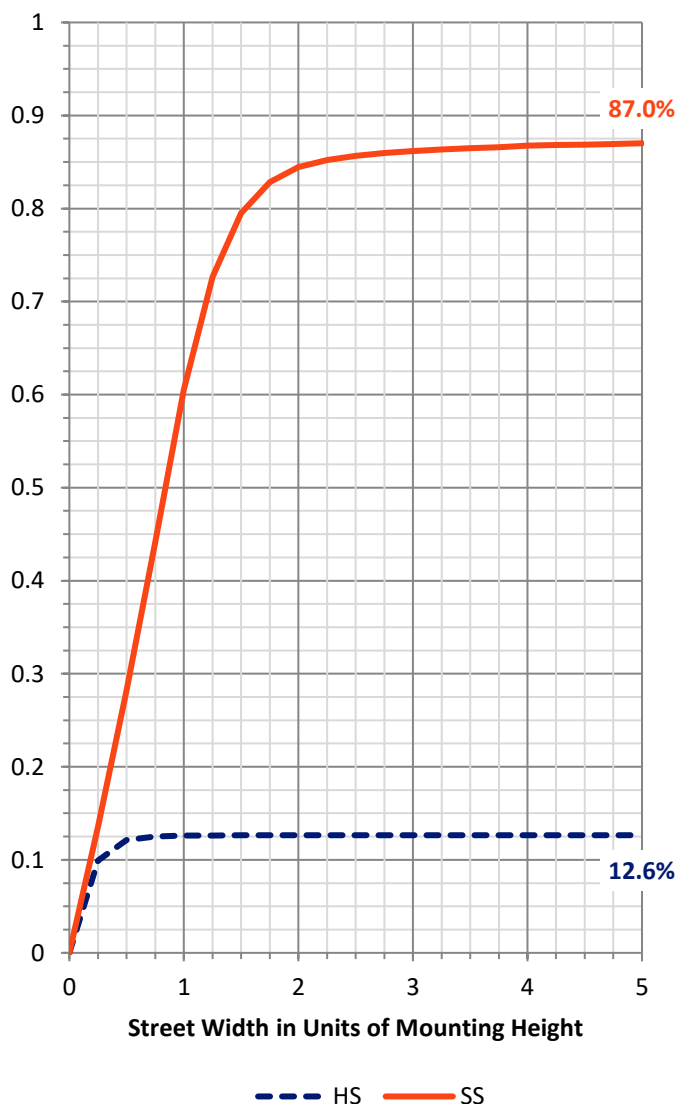
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	984.2	0.0	984.2
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	6709.8	0.0	6709.8
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	7694.0	0.0	7694.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.8	1.1
10°-20°	250.3	3.3
20°-30°	454.2	5.9
30°-40°	870.0	11.3
40°-50°	1603.5	20.8
50°-60°	2071.0	26.9
60°-70°	1696.4	22.0
70°-80°	623.6	8.1
80°-90°	40.2	0.5
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°	7694.0	100.0
0°-180°	7694.0	100.0

**Coefficient of Utilization**

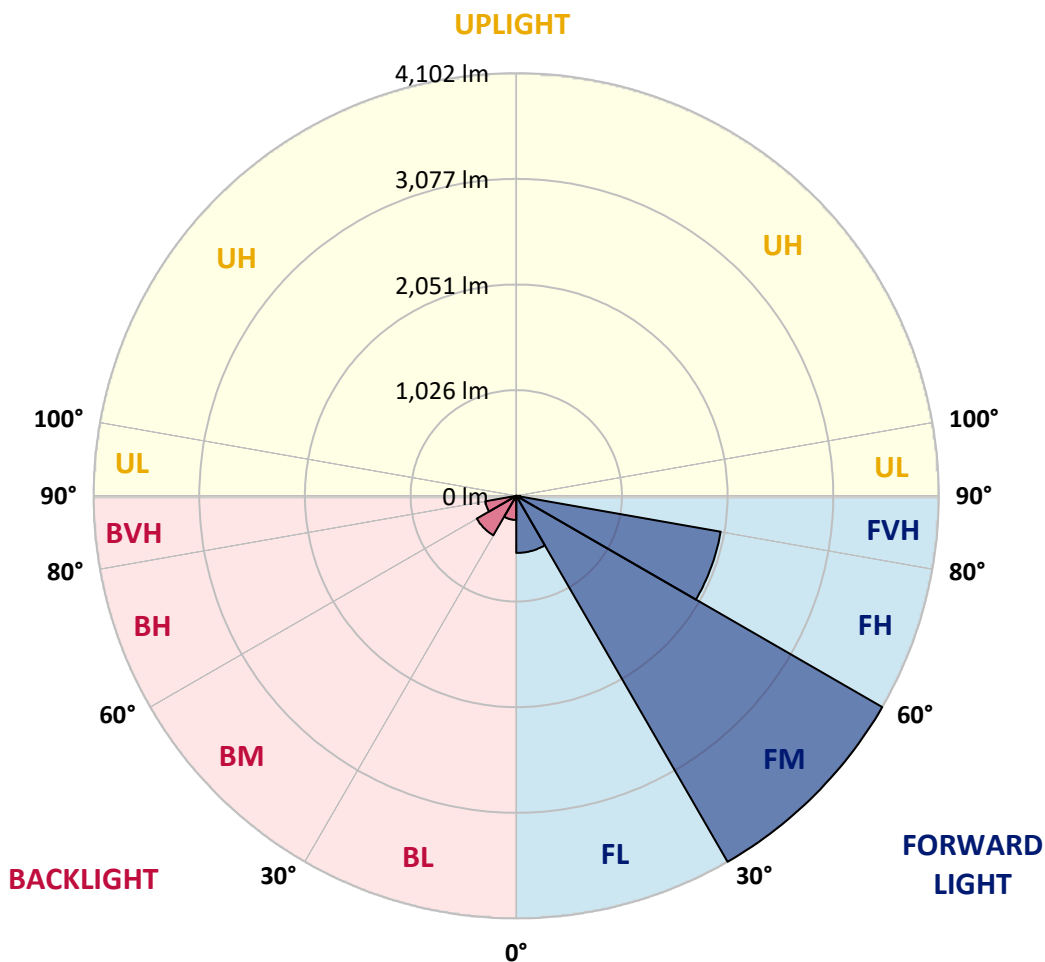


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	554.7	7.2			
FM (30°-60°)	4102.0	53.3			
FH (60°-80°)	2014.6	26.2			G2/5000
FVH (80°-90°)	38.4	0.5			G1/100
BL (0°-30°)	234.6	3.0	B1/500		
BM (30°-60°)	442.5	5.8	B1/1000		
BH (60°-80°)	305.3	4.0	B1/500		G1/500
BVH (80°-90°)	1.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	894.0	894.0	894.0	894.0	894.0	894.0	894.0	894.0	894.0	894.0	894.0
2.5°	925.7	925.7	931.0	928.4	928.4	923.1	915.2	917.8	915.2	912.5	904.6
5°	909.9	912.5	915.2	920.5	931.0	936.3	936.3	939.0	939.0	936.3	925.7
7.5°	901.9	907.2	912.5	917.8	931.0	939.0	952.2	968.1	968.1	970.7	960.1
10°	931.0	936.3	944.3	952.2	965.4	978.6	989.2	1007.7	1007.7	1013.0	1010.4
12.5°	991.9	991.9	994.5	999.8	1018.3	1034.2	1052.7	1068.6	1071.2	1073.9	1065.9
15°	1065.9	1065.9	1068.6	1068.6	1079.2	1103.0	1137.3	1153.2	1150.6	1147.9	1132.1
17.5°	1150.6	1150.6	1150.6	1153.2	1158.5	1171.7	1211.4	1243.1	1240.5	1237.9	1206.1
20°	1229.9	1235.2	1240.5	1243.1	1248.4	1259.0	1301.3	1338.4	1346.3	1335.7	1280.2
22.5°	1319.8	1322.5	1325.1	1333.1	1346.3	1351.6	1393.9	1449.5	1457.4	1444.2	1370.1
25°	1409.8	1415.1	1423.0	1433.6	1446.8	1473.3	1502.4	1576.4	1584.3	1568.5	1468.0
27.5°	1608.2	1605.5	1581.7	1563.2	1565.8	1584.3	1624.0	1703.4	1711.3	1695.4	1565.8
30°	1946.7	1915.0	1870.0	1788.0	1708.7	1716.6	1772.1	1848.8	1862.1	1840.9	1674.3
32.5°	2428.1	2396.4	2285.3	2105.4	1930.8	1872.6	1944.1	2018.1	2034.0	2010.2	1801.2
35°	2896.3	2888.3	2782.5	2565.6	2269.4	2108.1	2126.6	2221.8	2227.1	2198.0	1959.9
37.5°	3475.5	3446.4	3300.9	3057.6	2708.5	2420.2	2367.3	2457.2	2470.4	2436.0	2153.0
40°	3859.0	3848.5	3761.2	3589.2	3213.7	2851.3	2660.9	2748.1	2745.5	2695.2	2375.2
42.5°	4081.2	4086.5	4081.2	3999.2	3785.0	3369.7	3049.7	3055.0	3062.9	3010.0	2631.8
45°	4232.0	4232.0	4239.9	4306.0	4224.0	3988.6	3523.1	3404.1	3414.7	3332.7	2898.9
47.5°	4229.3	4245.2	4287.5	4440.9	4552.0	4565.2	4115.6	3811.4	3806.1	3681.8	3174.0
50°	3943.7	3933.1	4107.7	4451.5	4784.8	5041.3	4676.3	4242.6	4197.6	4044.2	3459.6
52.5°	3300.9	3335.3	3626.3	4131.5	4840.3	5364.0	5160.4	4713.4	4655.2	4403.9	3710.9
55°	2740.2	2777.2	3060.2	3554.9	4538.8	5477.8	5485.7	5213.3	5096.9	4716.0	3970.1
57.5°	2057.8	2129.2	2547.1	3012.6	3877.5	5194.7	5602.1	5692.0	5565.0	5017.5	4181.7
60°	1314.6	1356.9	1825.0	2399.0	3142.2	4454.2	5578.3	5969.7	5901.0	5292.6	4358.9
62.5°	859.6	883.4	1206.1	1806.5	2393.7	3356.5	5295.3	6080.8	6080.8	5477.8	4491.2
64°	648.0	653.3	883.4	1468.0	1997.0	2615.9	4962.0	6046.4	6109.9	5588.9	4517.6
65°	513.1	515.8	690.3	1219.3	1793.3	2145.1	4671.0	5972.4	6075.5	5631.2	4533.5
67.5°	359.7	367.7	447.0	703.6	1285.5	1237.9	3462.3	5623.2	5750.2	5644.4	4512.3
70°	312.1	322.7	375.6	460.2	917.8	719.4	1840.9	4792.7	4943.5	5258.2	4200.2
72.5°	238.0	251.3	314.8	388.8	645.4	486.7	711.5	3404.1	3642.1	4065.3	3467.6
75°	171.9	177.2	232.8	317.4	452.3	375.6	306.8	1756.3	1997.0	2399.0	2155.7
77.5°	108.4	116.4	158.7	238.0	404.7	285.7	182.5	640.1	806.7	1044.8	941.6
80°	63.5	66.1	95.2	164.0	272.4	211.6	116.4	227.5	275.1	388.8	251.3
82.5°	37.0	39.7	60.8	111.1	177.2	164.0	74.1	116.4	129.6	148.1	52.9
85°	13.2	13.2	42.3	66.1	95.2	82.0	42.3	60.8	66.1	82.0	15.9
87.5°	2.6	2.6	21.2	34.4	34.4	13.2	21.2	26.4	31.7	45.0	5.3
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°	894.0	894.0	894.0	894.0	894.0	894.0	894.0	894.0	894.0	894.0	894.0
2.5°	901.9	894.0	886.1	875.5	867.6	851.7	843.8	833.2	830.5	825.2	822.6
5°	923.1	909.9	891.4	864.9	849.0	825.2	809.4	793.5	790.9	785.6	782.9
7.5°	952.2	939.0	915.2	886.1	859.6	835.8	817.3	793.5	769.7	751.2	751.2
10°	999.8	983.9	952.2	925.7	894.0	843.8	756.5	677.1	626.9	595.1	584.5
12.5°	1058.0	1036.8	1002.4	970.7	909.9	751.2	616.3	513.1	428.5	388.8	380.9
15°	1118.8	1100.3	1065.9	1018.3	835.8	626.9	449.6	290.9	209.0	171.9	177.2
17.5°	1185.0	1158.5	1118.8	1023.6	735.3	468.2	240.7	148.1	127.0	121.7	121.7
20°	1253.7	1219.3	1179.7	965.4	605.7	269.8	137.5	111.1	103.2	95.2	97.9
22.5°	1327.8	1285.5	1224.6	878.1	433.8	145.5	105.8	89.9	79.3	76.7	76.7
25°	1407.1	1346.3	1269.6	777.6	251.3	111.1	87.3	71.4	63.5	60.8	58.2
27.5°	1491.8	1415.1	1280.2	645.4	142.8	92.6	68.8	55.5	47.6	45.0	45.0
30°	1568.5	1483.8	1256.4	478.7	108.4	76.7	55.5	42.3	37.0	37.0	37.0
32.5°	1671.6	1560.5	1182.3	298.9	87.3	60.8	42.3	34.4	29.1	29.1	29.1
35°	1806.5	1674.3	1108.2	158.7	71.4	50.3	34.4	26.4	23.8	23.8	23.8
37.5°	1991.7	1825.0	1042.1	100.5	58.2	39.7	26.4	21.2	18.5	18.5	18.5
40°	2182.1	2004.9	949.5	76.7	47.6	31.7	21.2	15.9	13.2	13.2	15.9
42.5°	2420.2	2213.9	843.8	66.1	39.7	26.4	15.9	10.6	7.9	10.6	10.6
45°	2660.9	2433.4	695.6	55.5	34.4	21.2	10.6	5.3	5.3	7.9	7.9
47.5°	2909.5	2666.1	539.6	47.6	29.1	15.9	7.9	2.6	2.6	5.3	5.3
50°	3166.0	2896.3	402.0	42.3	23.8	13.2	5.3	2.6	0.0	2.6	2.6
52.5°	3422.6	3118.4	312.1	37.0	21.2	10.6	2.6	0.0	0.0	0.0	2.6
55°	3660.7	3319.5	248.6	31.7	18.5	7.9	2.6	0.0	0.0	0.0	0.0
57.5°	3861.7	3467.6	198.4	29.1	15.9	5.3	2.6	0.0	0.0	0.0	0.0
60°	4052.1	3584.0	153.4	23.8	13.2	5.3	2.6	0.0	0.0	0.0	0.0
62.5°	4187.0	3628.9	124.3	21.2	10.6	5.3	0.0	0.0	0.0	0.0	0.0
64°	4245.2	3634.2	108.4	18.5	10.6	5.3	2.6	0.0	0.0	0.0	0.0
65°	4279.6	3618.3	100.5	18.5	10.6	5.3	2.6	0.0	0.0	0.0	0.0
67.5°	4287.5	3531.1	76.7	15.9	7.9	2.6	2.6	0.0	0.0	0.0	0.0
70°	4054.8	3226.9	55.5	10.6	5.3	2.6	0.0	0.0	0.0	0.0	0.0
72.5°	3388.2	2465.1	37.0	7.9	5.3	2.6	0.0	0.0	0.0	0.0	0.0
75°	2116.0	1065.9	21.2	7.9	2.6	2.6	0.0	0.0	0.0	0.0	0.0
77.5°	875.5	322.7	13.2	5.3	2.6	2.6	0.0	0.0	0.0	0.0	0.0
80°	201.0	76.7	5.3	2.6	2.6	2.6	0.0	0.0	0.0	0.0	0.0
82.5°	47.6	13.2	2.6	2.6	2.6	2.6	0.0	0.0	0.0	0.0	0.0
85°	10.6	2.6	2.6	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.3	2.6	2.6	2.6	2.6	2.6	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)