

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: LUMARK

Report Number: P381382

Luminaire Tested: **PRV-PA2A-740-U-T2U-HSS**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381382
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)
Test Lab: INNOVATIONS CENTER
Issue Date: 1/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-PA2A-740-U-T2U-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 720mA LIGHT ENGINES 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: 11013 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

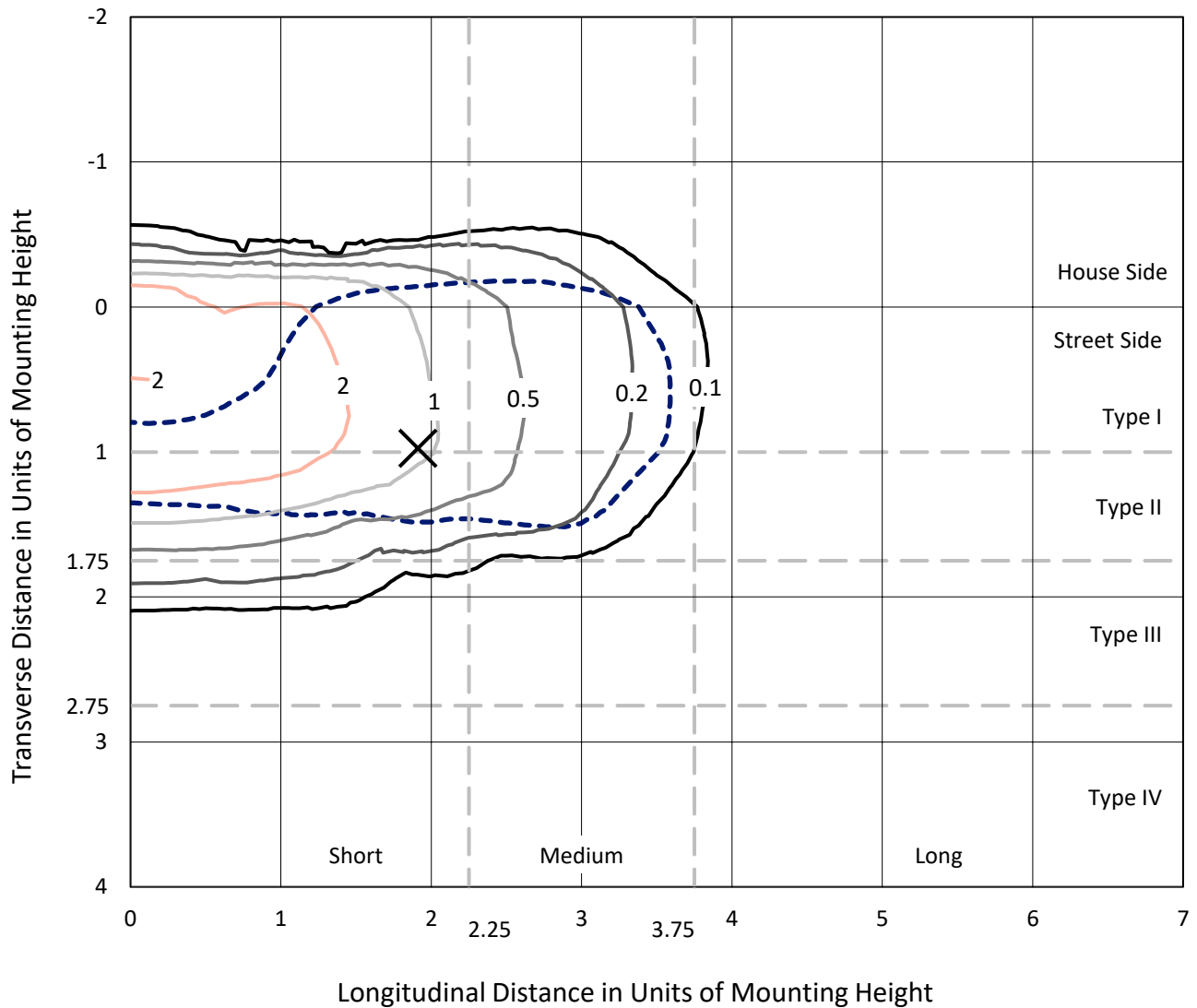
Input Watts (W): 112
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

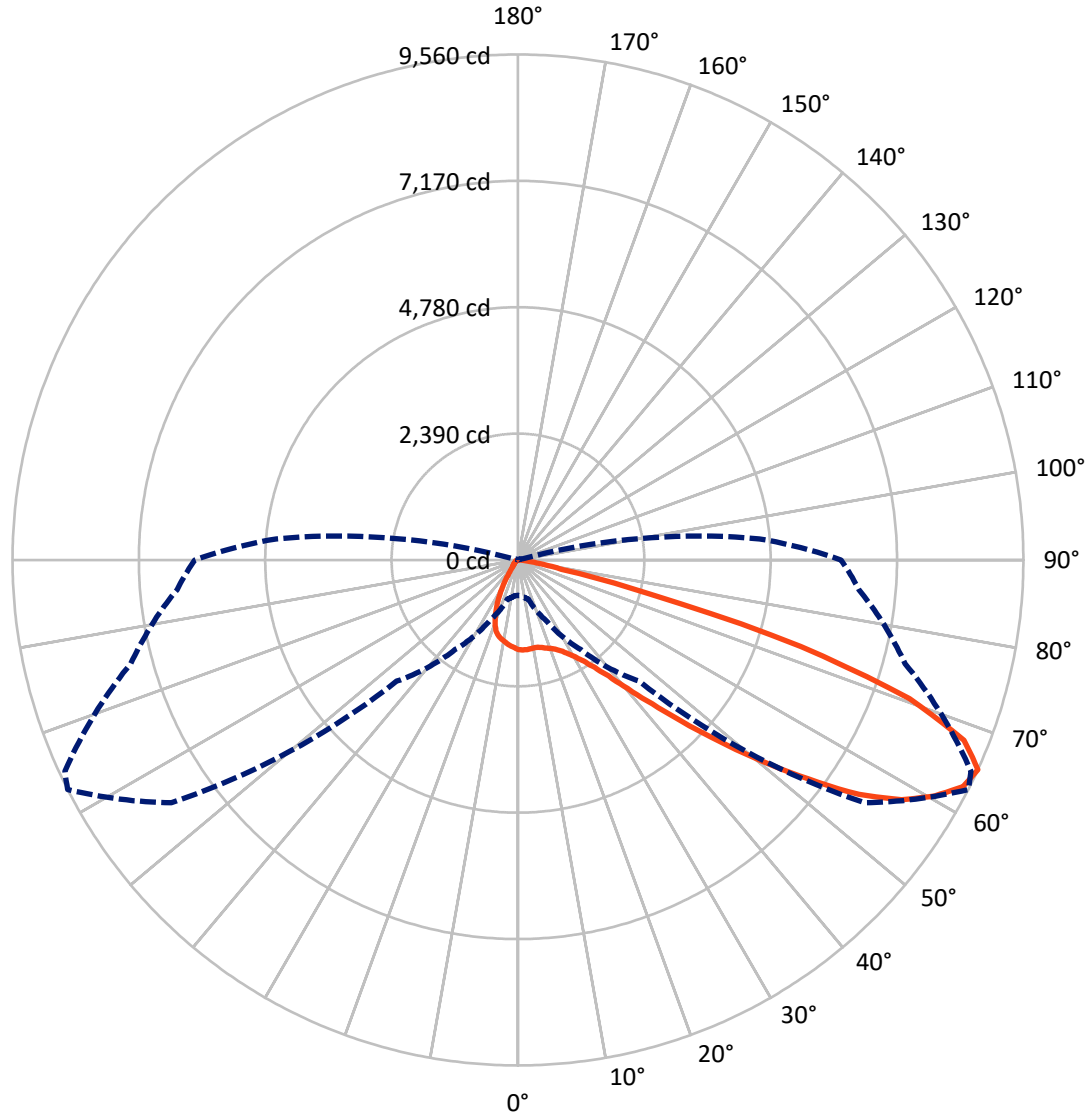
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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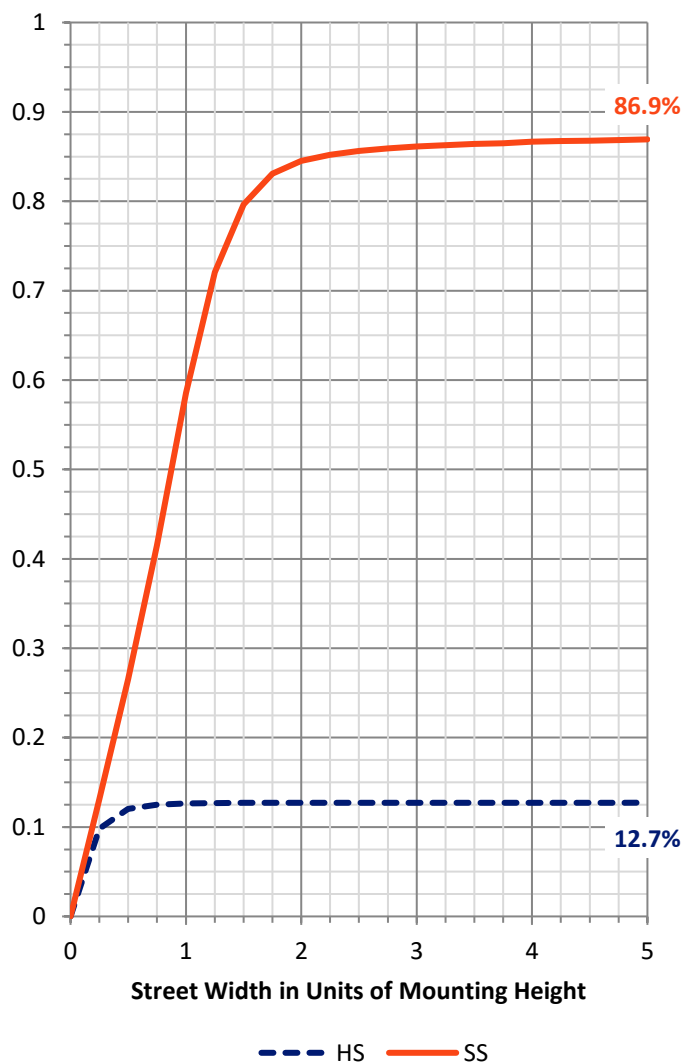
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1417.4	0.0	1417.4
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	9595.6	0.0	9595.6
	% Fixture	87.1	0.0	87.1
Total	Lumens	11013.0	0.0	11013.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.8	1.4
10°-20°	381.9	3.5
20°-30°	566.0	5.1
30°-40°	1051.0	9.5
40°-50°	2226.5	20.2
50°-60°	3078.6	28.0
60°-70°	2464.5	22.4
70°-80°	1024.0	9.3
80°-90°	65.8	0.6
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°	11013.0	100.0
0°-180°	11013.0	100.0

Coefficient of Utilization

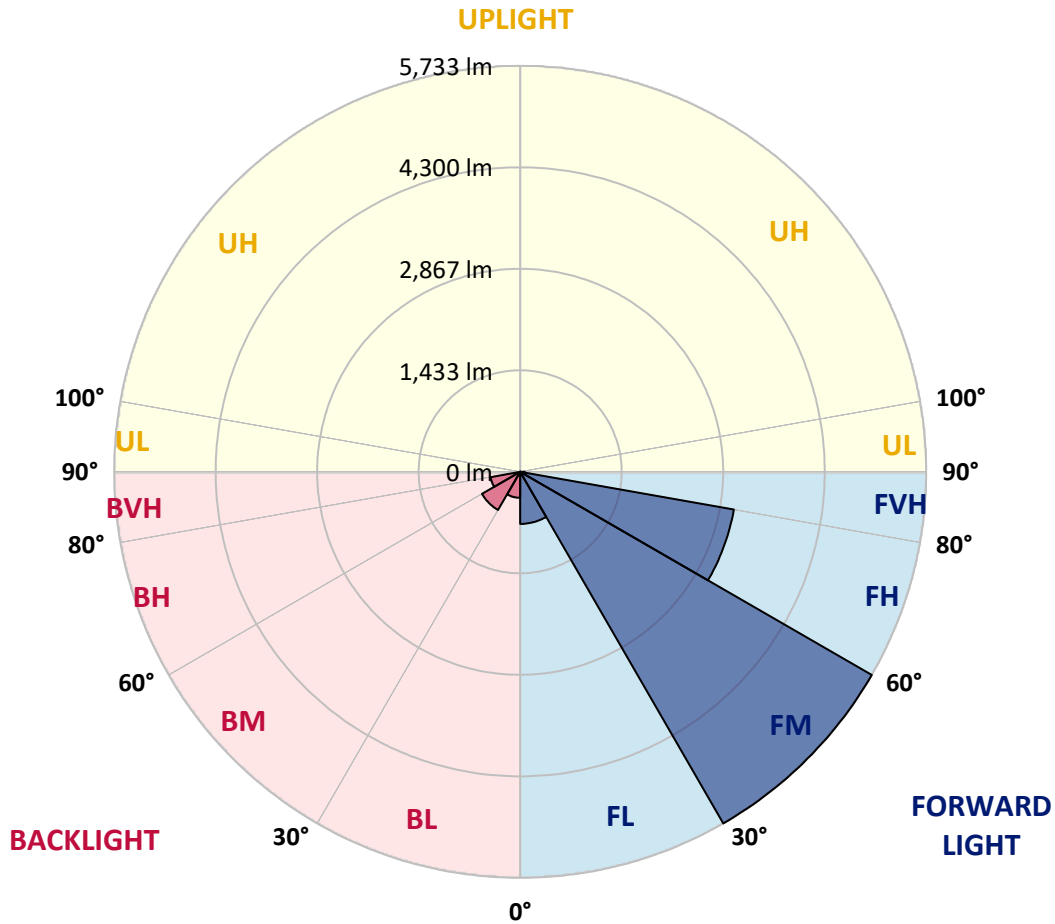


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	735.4	6.7			
FM (30°-60°)	5733.4	52.1			
FH (60°-80°)	3064.1	27.8			G2/5000
FVH (80°-90°)	62.7	0.6			G1/100
BL (0°-30°)	367.3	3.3	B1/500		
BM (30°-60°)	622.6	5.7	B1/1000		
BH (60°-80°)	424.4	3.9	B1/500		G1/500
BVH (80°-90°)	3.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1696.6	1696.6	1696.6	1696.6	1696.6	1696.6	1696.6	1696.6	1696.6	1696.6	1696.6
2.5°	1725.7	1721.5	1717.3	1715.3	1715.3	1713.2	1704.9	1702.8	1698.6	1694.5	1690.3
5°	1709.0	1702.8	1700.7	1702.8	1704.9	1709.0	1704.9	1704.9	1700.7	1696.6	1688.2
7.5°	1667.5	1663.3	1665.4	1671.6	1673.7	1688.2	1690.3	1696.6	1696.6	1692.4	1686.2
10°	1617.6	1615.5	1615.5	1625.9	1636.3	1657.1	1671.6	1688.2	1690.3	1690.3	1679.9
12.5°	1580.1	1578.0	1584.3	1596.8	1617.6	1644.6	1669.5	1694.5	1698.6	1700.7	1684.1
15°	1557.3	1557.3	1565.6	1590.5	1619.6	1657.1	1686.2	1719.4	1723.6	1721.5	1698.6
17.5°	1536.5	1538.5	1555.2	1596.8	1630.0	1679.9	1715.3	1752.7	1754.8	1752.7	1715.3
20°	1528.2	1532.3	1557.3	1611.3	1648.7	1704.9	1750.6	1788.0	1790.1	1781.8	1731.9
22.5°	1551.0	1553.1	1584.3	1642.5	1677.8	1740.2	1798.4	1833.8	1835.9	1823.4	1756.9
25°	1630.0	1630.0	1657.1	1707.0	1738.1	1800.5	1862.9	1904.5	1904.5	1889.9	1813.0
27.5°	1815.1	1798.4	1792.2	1806.8	1817.1	1883.7	1950.2	2002.2	2000.1	1979.3	1885.8
30°	2172.7	2131.1	2064.6	1989.7	1952.3	1998.0	2060.4	2126.9	2124.9	2091.6	1975.2
32.5°	2773.5	2713.2	2555.2	2357.7	2197.6	2145.6	2203.9	2276.6	2278.7	2239.2	2118.6
35°	3615.6	3519.9	3237.2	2962.7	2596.8	2399.3	2415.9	2494.9	2519.9	2499.1	2359.8
37.5°	4426.4	4339.1	4068.8	3688.4	3191.4	2788.1	2717.4	2786.0	2815.1	2815.1	2667.5
40°	5243.5	5141.7	4902.6	4520.0	3996.1	3395.2	3141.5	3197.7	3228.9	3235.1	3041.7
42.5°	5898.5	5831.9	5649.0	5351.6	4861.0	4459.7	3752.8	3721.6	3750.7	3727.9	3476.3
45°	6351.7	6299.7	6172.9	6060.6	5821.5	5619.9	4569.9	4359.9	4378.6	4299.6	3964.9
47.5°	6445.3	6387.0	6360.0	6515.9	6686.4	6736.3	5574.1	5118.8	5100.1	4925.4	4472.2
50°	6037.8	6044.0	6143.8	6588.7	7299.8	7748.9	6738.4	5975.4	5906.8	5518.0	4944.1
52.5°	5158.3	5258.1	5509.7	6231.1	7486.9	8484.9	7902.7	6884.0	6777.9	6093.9	5297.6
55°	4035.6	4164.5	4578.2	5407.8	7096.0	8813.4	8884.1	7827.9	7586.7	6526.3	5572.0
57.5°	3000.2	3039.7	3522.0	4278.8	6170.8	8491.1	9387.2	8555.6	8245.8	6871.5	5844.4
60°	1869.1	1894.1	2403.5	3258.0	4673.9	7299.8	9387.2	9056.6	8761.4	7181.3	6093.9
62.5°	1162.2	1170.5	1361.8	2233.0	3176.9	5414.0	8998.4	9445.4	9208.4	7403.7	6308.0
65°	669.5	677.8	767.2	1262.0	2066.6	3241.3	8004.6	9559.8	9453.7	7580.5	6474.4
67.5°	488.6	492.8	528.1	709.0	1351.4	1665.4	6012.8	9100.3	9233.4	7667.8	6470.2
70°	424.1	430.4	476.1	553.0	975.1	1022.9	3060.5	7859.1	8231.2	7543.0	6276.9
72.5°	326.4	334.7	403.3	519.8	715.2	736.0	1108.2	5592.8	6156.3	6763.4	5746.7
75°	224.5	232.9	301.5	428.3	590.5	551.0	609.2	2573.9	3247.6	4536.6	4374.5
77.5°	143.5	145.5	189.2	311.9	509.4	390.9	417.9	840.0	1178.9	2052.1	2064.6
80°	95.6	97.7	116.4	201.7	349.3	361.8	257.8	388.8	426.2	598.8	415.8
82.5°	58.2	58.2	79.0	126.8	212.1	299.4	168.4	203.8	218.3	230.8	108.1
85°	22.9	22.9	47.8	83.2	133.1	139.3	106.0	118.5	124.7	135.1	49.9
87.5°	6.2	6.2	27.0	45.7	58.2	64.5	64.5	58.2	62.4	76.9	24.9
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°	1696.6	1696.6	1696.6	1696.6	1696.6	1696.6	1696.6	1696.6	1696.6	1696.6	1696.6
2.5°	1688.2	1682.0	1673.7	1665.4	1657.1	1650.8	1644.6	1644.6	1640.4	1634.2	1630.0
5°	1684.1	1673.7	1655.0	1640.4	1617.6	1600.9	1588.4	1578.0	1571.8	1557.3	1555.2
7.5°	1677.8	1665.4	1638.3	1609.2	1571.8	1542.7	1513.6	1492.8	1472.0	1455.4	1451.2
10°	1667.5	1652.9	1613.4	1571.8	1519.8	1465.8	1397.2	1318.2	1245.4	1203.8	1191.3
12.5°	1667.5	1648.7	1596.8	1540.6	1465.8	1332.7	1158.1	983.4	848.3	788.0	771.4
15°	1677.8	1652.9	1584.3	1507.4	1368.1	1097.8	815.0	584.2	436.6	390.9	380.5
17.5°	1688.2	1652.9	1565.6	1461.6	1189.3	796.3	463.6	307.7	259.9	249.5	249.5
20°	1692.4	1648.7	1540.6	1376.4	950.2	494.8	276.5	230.8	212.1	205.8	205.8
22.5°	1709.0	1650.8	1521.9	1253.7	690.3	291.1	218.3	193.4	174.6	168.4	168.4
25°	1750.6	1675.8	1526.1	1097.8	442.9	220.4	185.0	160.1	141.4	133.1	133.1
27.5°	1817.1	1731.9	1548.9	916.9	278.6	189.2	155.9	128.9	114.4	106.0	106.0
30°	1892.0	1794.3	1559.3	709.0	207.9	160.1	126.8	101.9	91.5	85.2	83.2
32.5°	2023.0	1902.4	1551.0	486.5	170.5	135.1	101.9	81.1	72.8	70.7	70.7
35°	2233.0	2091.6	1534.4	305.6	141.4	108.1	81.1	66.5	60.3	58.2	56.1
37.5°	2517.8	2368.1	1484.5	201.7	116.4	85.2	66.5	56.1	49.9	47.8	47.8
40°	2865.0	2684.1	1388.8	153.9	99.8	68.6	56.1	47.8	43.7	41.6	41.6
42.5°	3262.1	3035.5	1237.1	133.1	83.2	58.2	47.8	39.5	37.4	35.3	35.3
45°	3696.7	3403.5	1027.1	118.5	70.7	47.8	39.5	35.3	31.2	31.2	29.1
47.5°	4158.2	3773.6	790.1	104.0	60.3	41.6	35.3	29.1	27.0	24.9	24.9
50°	4603.2	4104.2	555.1	89.4	49.9	35.3	29.1	24.9	22.9	20.8	20.8
52.5°	4917.1	4303.8	393.0	76.9	41.6	31.2	22.9	18.7	16.6	16.6	16.6
55°	5168.7	4428.5	274.4	64.5	35.3	27.0	18.7	14.6	14.6	12.5	12.5
57.5°	5405.7	4509.6	201.7	54.1	29.1	20.8	14.6	10.4	10.4	8.3	8.3
60°	5651.0	4553.3	153.9	43.7	24.9	16.6	10.4	8.3	6.2	6.2	6.2
62.5°	5898.5	4580.3	118.5	35.3	20.8	12.5	8.3	6.2	4.2	2.1	2.1
65°	6114.7	4588.6	91.5	27.0	16.6	8.3	6.2	2.1	0.0	0.0	0.0
67.5°	6179.1	4493.0	70.7	20.8	12.5	6.2	4.2	0.0	0.0	0.0	0.0
70°	6004.5	4239.3	54.1	16.6	10.4	4.2	2.1	0.0	0.0	0.0	0.0
72.5°	5328.8	3555.3	41.6	10.4	8.3	4.2	2.1	0.0	0.0	0.0	0.0
75°	3813.1	1896.2	29.1	8.3	6.2	2.1	0.0	0.0	0.0	0.0	0.0
77.5°	1754.8	733.9	20.8	6.2	4.2	2.1	0.0	0.0	0.0	0.0	0.0
80°	343.1	183.0	8.3	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	79.0	31.2	4.2	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	27.0	10.4	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.4	4.2	2.1	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)