

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: P381246

Luminaire Tested: **PRV-PA2A-730-U-T3-HSS**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381246
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)
Test Lab: INNOVATIONS CENTER
Issue Date: 1/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-PA2A-730-U-T3-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 720mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10588 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

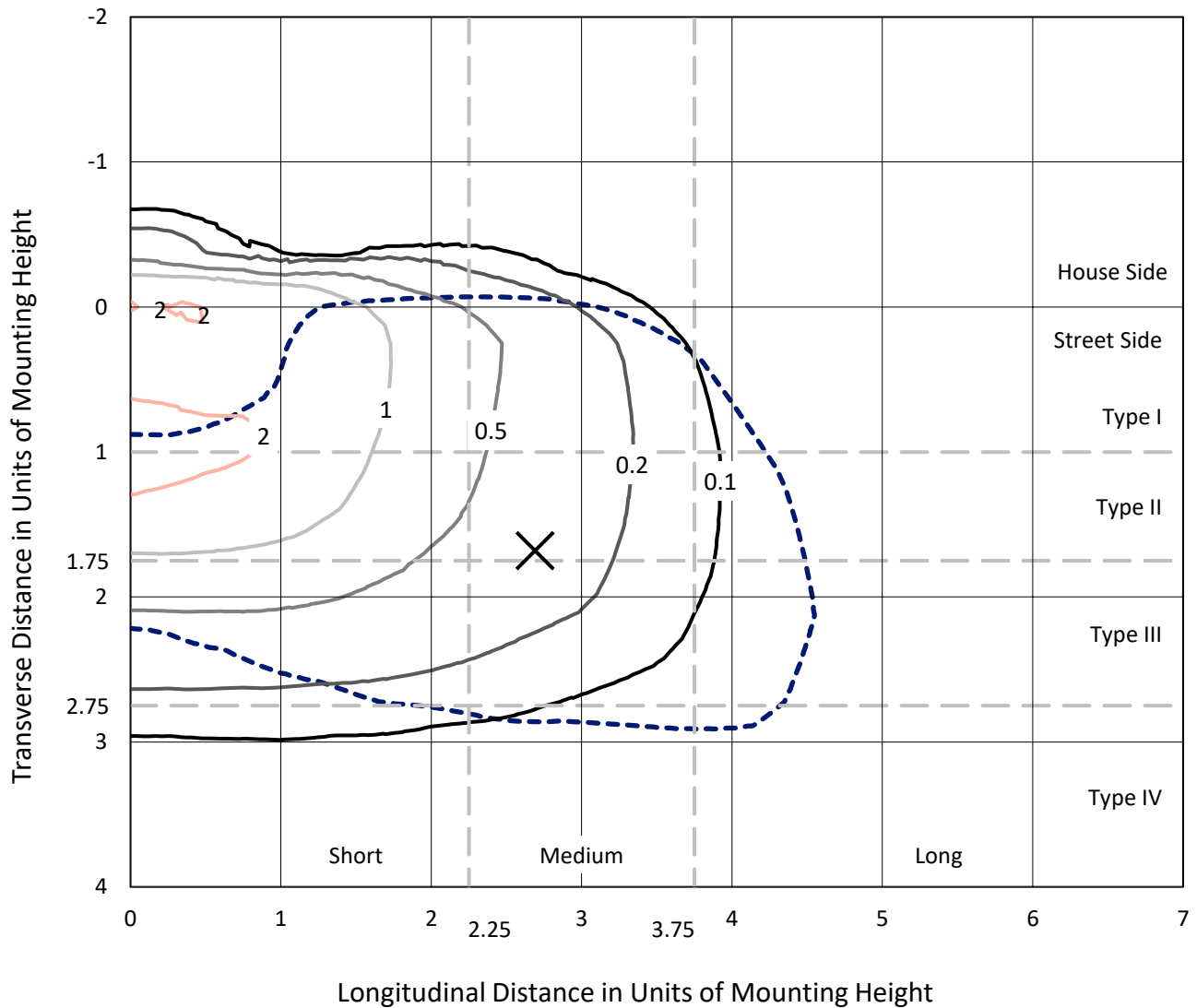
Input Watts (W): 112
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

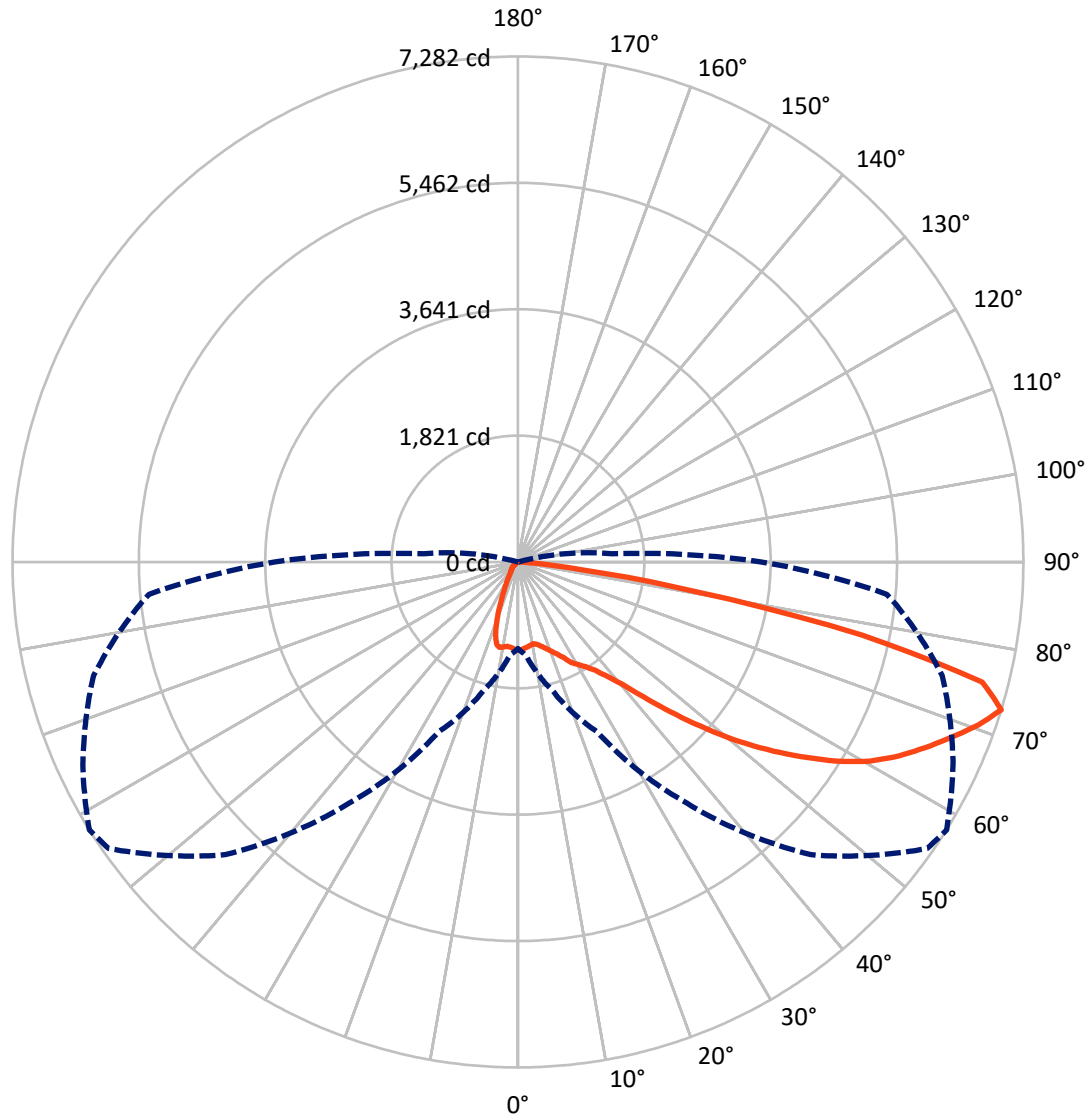
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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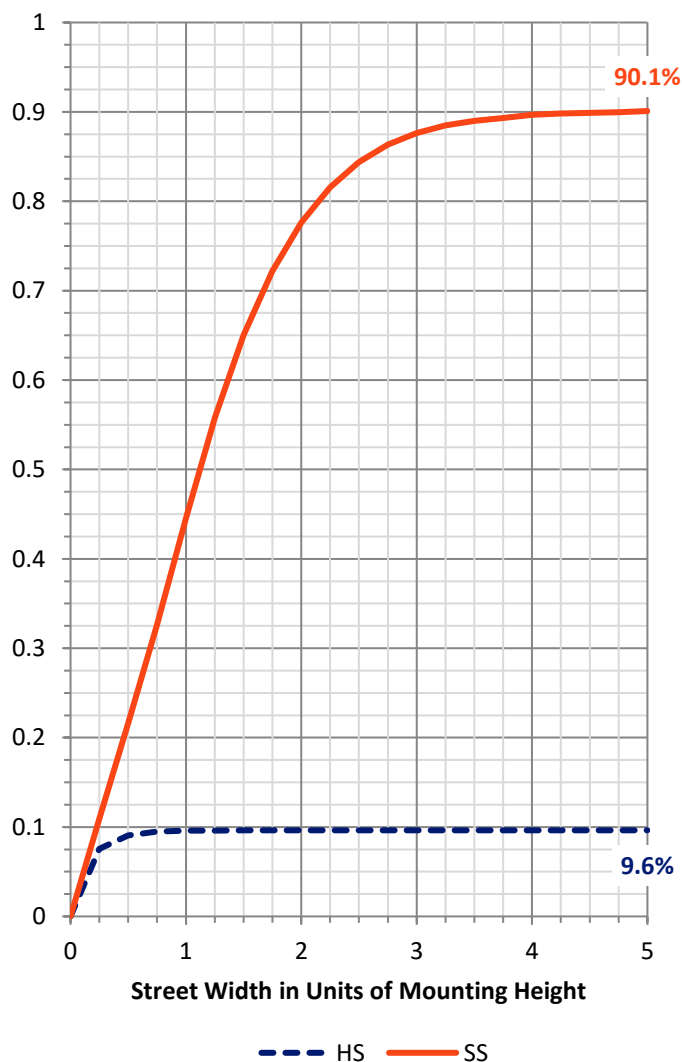
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1029.6	0.0	1029.6
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	9558.4	0.0	9558.4
	% Fixture	90.3	0.0	90.3
Total	Lumens	10588.0	0.0	10588.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.6	1.1
10°-20°	303.7	2.9
20°-30°	477.1	4.5
30°-40°	822.8	7.8
40°-50°	1565.4	14.8
50°-60°	2479.1	23.4
60°-70°	2892.8	27.3
70°-80°	1811.8	17.1
80°-90°	118.9	1.1
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°	10588.0	100.0
0°-180°	10588.0	100.0

Coefficient of Utilization



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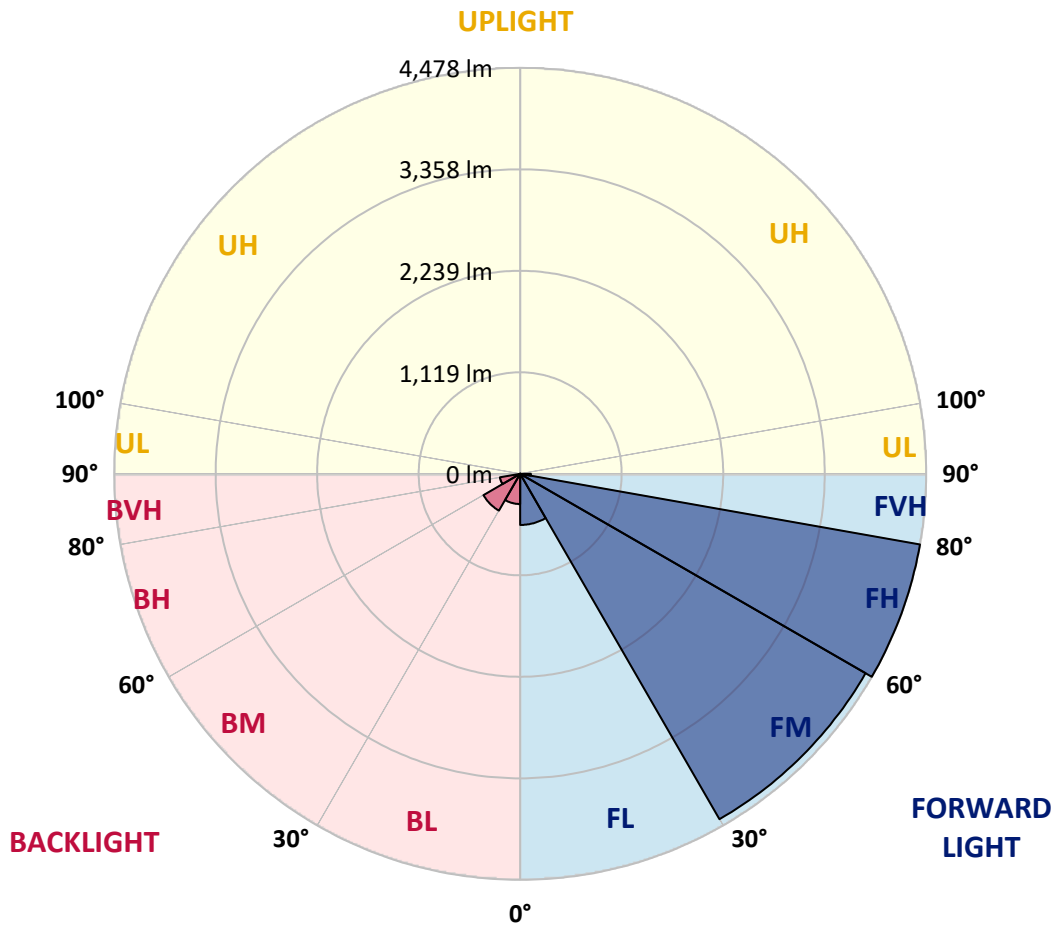
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	564.0	5.3			
FM (30°-60°)	4398.7	41.5			
FH (60°-80°)	4478.0	42.3			G2/5000
FVH (80°-90°)	117.8	1.1			G2/225
BL (0°-30°)	333.4	3.1	B1/500		
BM (30°-60°)	468.5	4.4	B1/1000		
BH (60°-80°)	226.6	2.1	B1/500		G1/500
BVH (80°-90°)	1.1	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1270.5	1270.5	1270.5	1270.5	1270.5	1270.5	1270.5	1270.5	1270.5	1270.5	1270.5
2.5°	1264.8	1259.1	1257.2	1255.3	1257.2	1259.1	1253.5	1259.1	1255.3	1257.2	1261.0
5°	1219.4	1213.7	1211.8	1213.7	1219.4	1228.8	1232.6	1238.3	1238.3	1244.0	1245.9
7.5°	1168.2	1164.5	1162.6	1166.4	1177.7	1198.5	1209.9	1217.5	1225.1	1236.4	1247.8
10°	1139.8	1138.0	1136.1	1141.7	1153.1	1172.0	1187.2	1198.5	1226.9	1259.1	1280.0
12.5°	1120.9	1120.9	1124.7	1136.1	1151.2	1166.4	1202.3	1217.5	1261.0	1310.3	1338.7
15°	1105.8	1105.8	1111.4	1132.3	1153.1	1189.1	1242.1	1259.1	1310.3	1370.8	1408.7
17.5°	1094.4	1098.2	1102.0	1122.8	1162.6	1223.2	1285.6	1310.3	1372.7	1439.0	1480.7
20°	1096.3	1100.1	1102.0	1122.8	1179.6	1262.9	1342.4	1370.8	1442.8	1512.9	1554.5
22.5°	1107.7	1113.3	1115.2	1143.6	1209.9	1304.6	1406.8	1439.0	1516.6	1590.5	1622.7
25°	1155.0	1158.8	1147.4	1172.0	1253.5	1369.0	1490.1	1524.2	1601.8	1670.0	1696.5
27.5°	1315.9	1319.7	1257.2	1228.8	1287.5	1422.0	1592.4	1639.7	1736.3	1781.7	1785.5
30°	1664.3	1668.1	1545.0	1410.6	1369.0	1467.4	1649.2	1715.5	1840.4	1891.5	1868.8
32.5°	2113.1	2109.3	1940.8	1742.0	1562.1	1546.9	1730.6	1800.7	1937.0	1986.2	1969.2
35°	2563.7	2569.4	2425.5	2126.3	1868.8	1696.5	1834.7	1916.2	2080.9	2150.9	2120.6
37.5°	2872.3	2910.2	2847.7	2524.0	2245.6	1973.0	2003.3	2090.4	2296.7	2391.4	2327.0
40°	3307.8	3298.4	3146.9	2908.3	2662.2	2381.9	2275.9	2317.6	2554.2	2681.1	2580.8
42.5°	3892.9	3874.0	3616.5	3383.6	3109.0	2879.9	2664.1	2656.5	2849.6	2997.3	2851.5
45°	4423.1	4394.7	4218.6	3993.3	3692.2	3429.0	3137.4	3071.2	3205.6	3330.6	3160.1
47.5°	4845.3	4798.0	4673.0	4553.7	4479.9	4070.9	3633.5	3533.2	3601.3	3694.1	3453.6
50°	5345.2	5214.5	5032.8	4960.8	5114.2	4798.0	4110.6	4014.1	4010.3	4063.3	3756.6
52.5°	5572.4	5335.7	5233.5	5294.0	5564.8	5473.9	4625.7	4487.4	4432.5	4438.2	4038.7
55°	5297.8	5271.3	5326.2	5515.6	5869.7	5816.6	5119.9	4949.4	4868.0	4765.8	4309.5
57.5°	4985.4	5066.8	5284.6	5646.2	6255.9	6174.5	5606.5	5413.3	5263.8	5029.0	4610.5
60°	4697.6	4780.9	5140.7	5676.5	6468.0	6519.1	6011.7	5828.0	5606.5	5297.8	4941.9
62.5°	4260.2	4324.6	4830.2	5633.0	6375.2	6719.8	6293.8	6155.6	5949.2	5553.4	5322.4
65°	3767.9	3809.6	4309.5	5284.6	6193.4	6697.1	6526.7	6449.0	6248.3	5820.4	5699.2
67.5°	3228.3	3277.5	3694.1	4657.9	5837.5	6591.1	6746.3	6738.7	6509.6	6115.8	5971.9
70°	2607.3	2611.0	2955.7	3862.6	5216.4	6379.0	7019.0	7036.0	6759.6	6337.3	5983.3
72.5°	1247.8	1350.0	1916.2	2696.3	4239.4	5962.4	7196.9	7282.2	6916.7	6329.8	5337.6
75°	285.9	295.4	558.6	1281.9	2486.1	4576.4	6752.0	6911.0	6534.2	5473.9	3760.4
77.5°	104.1	109.8	157.2	374.9	956.2	2364.9	4832.0	5064.9	4830.2	3538.8	1777.9
80°	70.1	68.2	81.4	166.6	439.3	670.3	2470.9	2609.2	2381.9	1208.0	426.0
82.5°	36.0	37.9	56.8	92.8	295.4	232.9	825.5	897.5	738.4	242.4	79.5
85°	17.0	17.0	32.2	58.7	125.0	81.4	183.7	221.5	198.8	106.0	26.5
87.5°	17.0	17.0	30.3	37.9	64.4	34.1	45.4	56.8	53.0	56.8	9.5
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°	1270.5	1270.5	1270.5	1270.5	1270.5	1270.5	1270.5	1270.5	1270.5	1270.5	1270.5
2.5°	1261.0	1259.1	1257.2	1261.0	1259.1	1262.9	1262.9	1266.7	1266.7	1262.9	1261.0
5°	1244.0	1240.2	1236.4	1236.4	1234.5	1238.3	1249.7	1259.1	1261.0	1255.3	1253.5
7.5°	1245.9	1245.9	1242.1	1234.5	1221.3	1221.3	1221.3	1232.6	1238.3	1234.5	1232.6
10°	1280.0	1281.9	1272.4	1255.3	1232.6	1211.8	1172.0	1113.3	1058.4	1043.3	1037.6
12.5°	1338.7	1340.6	1321.6	1291.3	1244.0	1120.9	969.4	829.3	721.4	691.1	685.4
15°	1408.7	1410.6	1376.5	1327.3	1183.4	897.5	672.2	513.1	418.4	395.7	393.8
17.5°	1480.7	1476.9	1425.8	1331.1	1003.5	636.2	409.0	327.6	302.9	297.3	299.2
20°	1550.7	1539.4	1469.3	1261.0	772.5	416.6	299.2	280.2	274.5	270.8	270.8
22.5°	1615.1	1592.4	1505.3	1122.8	541.5	299.2	267.0	263.2	255.6	249.9	248.0
25°	1679.5	1647.3	1528.0	942.9	363.5	261.3	251.8	244.3	234.8	227.2	225.3
27.5°	1757.1	1711.7	1516.6	715.7	272.7	242.4	234.8	223.4	210.2	198.8	195.0
30°	1831.0	1779.8	1452.3	494.2	232.9	223.4	212.1	195.0	178.0	164.7	160.9
32.5°	1923.7	1865.0	1336.8	323.8	202.6	195.0	183.7	162.8	140.1	125.0	121.2
35°	2056.3	1990.0	1189.1	227.2	178.0	164.7	149.6	126.9	102.2	90.9	89.0
37.5°	2241.8	2152.8	1003.5	183.7	157.2	138.2	115.5	92.8	75.7	66.3	64.4
40°	2469.0	2332.7	797.1	162.8	140.1	115.5	87.1	66.3	54.9	47.3	47.3
42.5°	2715.2	2501.2	587.0	149.6	123.1	94.7	64.4	47.3	39.8	36.0	34.1
45°	2968.9	2650.8	395.7	138.2	107.9	72.0	45.4	32.2	26.5	26.5	24.6
47.5°	3232.1	2751.2	255.6	125.0	90.9	53.0	30.3	22.7	18.9	18.9	18.9
50°	3493.4	2804.2	181.8	113.6	73.8	36.0	22.7	17.0	15.1	15.1	15.1
52.5°	3682.7	2770.1	145.8	98.5	56.8	26.5	17.0	13.3	11.4	11.4	11.4
55°	3847.5	2711.4	126.9	85.2	41.7	18.9	13.3	11.4	9.5	9.5	9.5
57.5°	4016.0	2635.7	113.6	72.0	30.3	13.3	9.5	7.6	7.6	7.6	7.6
60°	4169.3	2506.9	98.5	56.8	20.8	9.5	7.6	5.7	5.7	5.7	5.7
62.5°	4318.9	2397.1	85.2	43.5	15.1	7.6	3.8	3.8	1.9	1.9	1.9
65°	4404.1	2249.4	68.2	28.4	9.5	5.7	1.9	1.9	0.0	0.0	0.0
67.5°	4377.6	2073.3	47.3	17.0	5.7	3.8	1.9	0.0	0.0	0.0	0.0
70°	4194.0	1836.6	28.4	9.5	5.7	3.8	1.9	0.0	0.0	0.0	0.0
72.5°	3512.3	1359.5	17.0	7.6	3.8	1.9	0.0	0.0	0.0	0.0	0.0
75°	2346.0	624.8	9.5	5.7	1.9	1.9	0.0	0.0	0.0	0.0	0.0
77.5°	1073.6	187.5	5.7	3.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	215.9	49.2	3.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	45.4	9.5	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.5	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.8	1.9	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)