

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: P143669

Luminaire Tested: **LDRL-5MQ-E06-E-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P143669
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33697)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LDRL-5MQ-E06-E-7030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (126) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17030.4 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

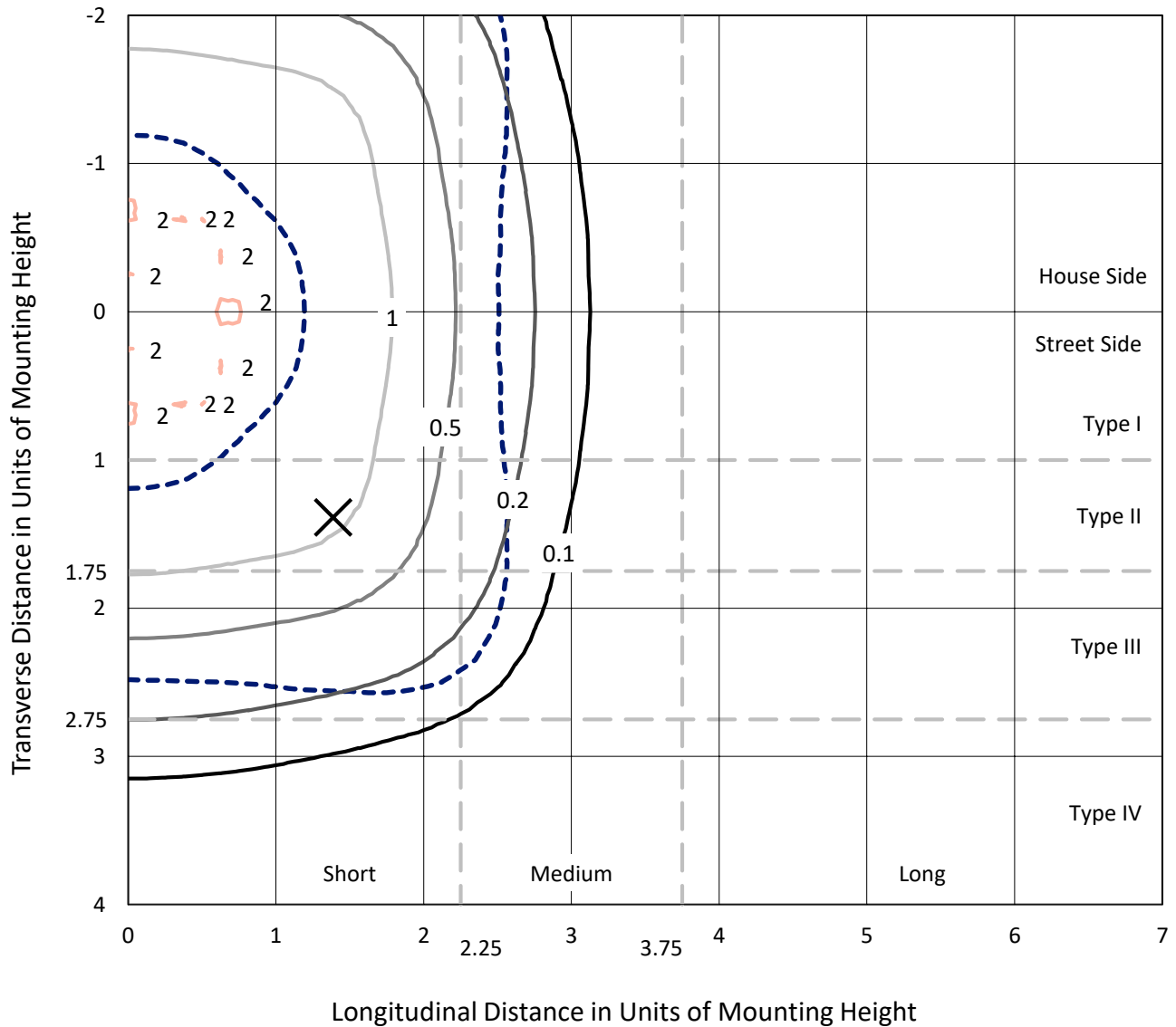
Input Watts (W): 150.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

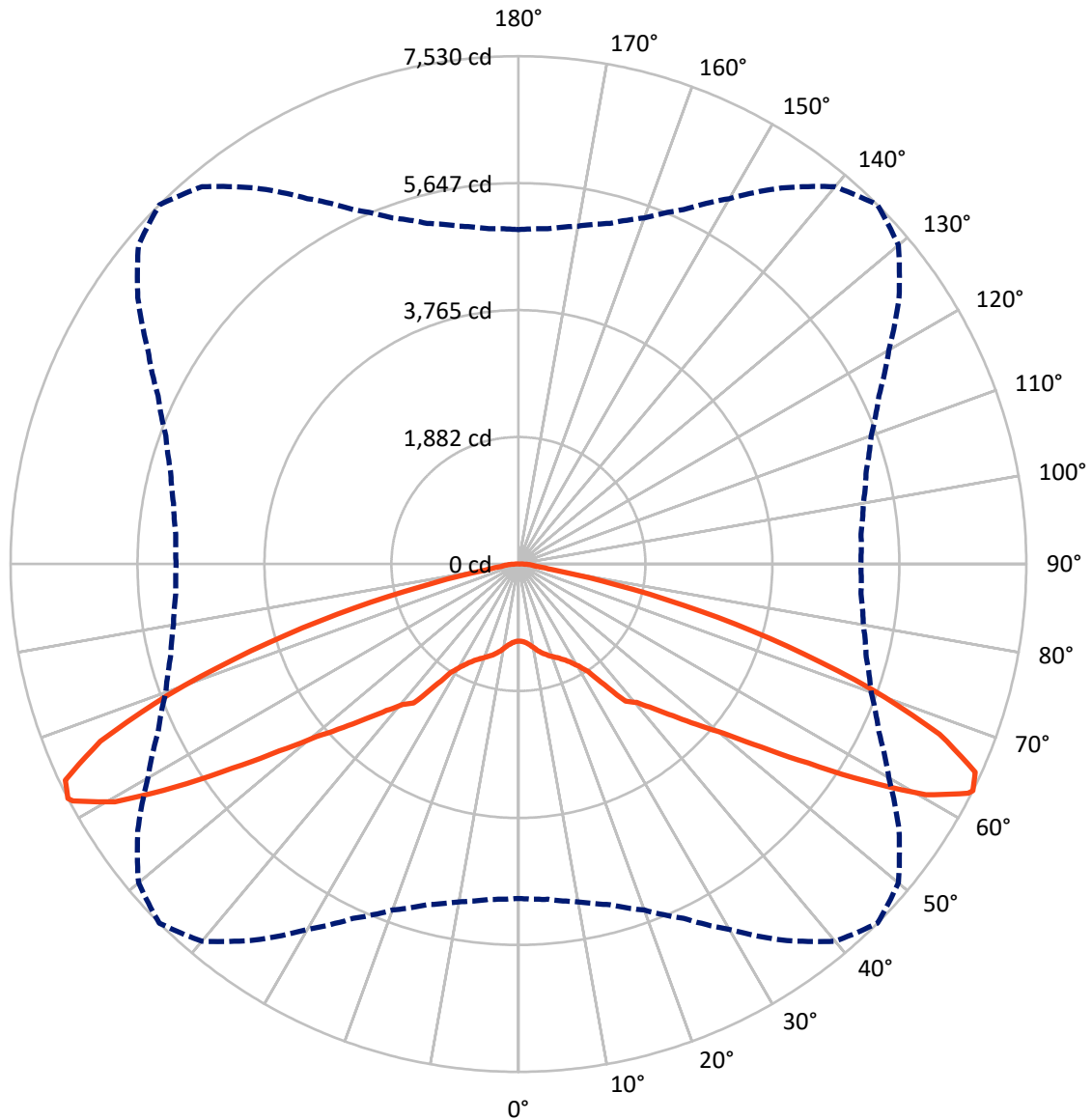
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8515.2	0.0	8515.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8515.2	0.0	8515.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	17030.4	0.0	17030.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.1	0.7
10°-20°	393.2	2.3
20°-30°	751.0	4.4
30°-40°	1430.6	8.4
40°-50°	2463.6	14.5
50°-60°	4402.3	25.8
60°-70°	5362.1	31.5
70°-80°	1910.0	11.2
80°-90°	202.5	1.2
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°	17030.4	100.0
0°-180°	17030.4	100.0



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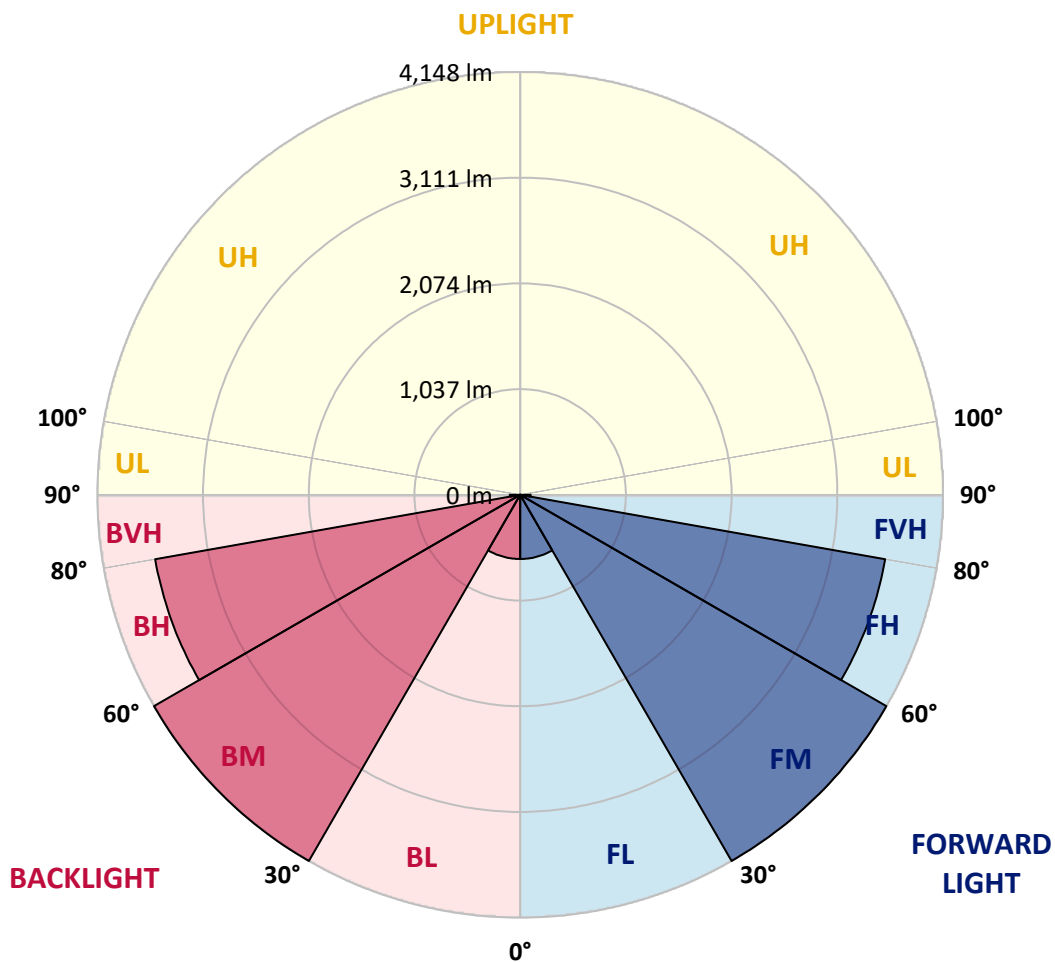
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	629.6	3.7			
FM	(30°-60°)	4148.3	24.4			
FH	(60°-80°)	3636.1	21.4			G2/5000
FVH	(80°-90°)	101.3	0.6			G2/225
BL	(0°-30°)	629.6	3.7	B2/1000		
BM	(30°-60°)	4148.3	24.4	B3/5000		
BH	(60°-80°)	3636.1	21.4	B4/5000		G2/5000
BVH	(80°-90°)	101.3	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1143.1	1143.1	1143.1	1143.1	1143.1	1143.1	1143.1	1143.1	1143.1	1143.1	1143.1
2.5°	1151.9	1150.8	1151.9	1149.7	1149.7	1148.6	1148.6	1148.6	1146.4	1148.6	1146.4
5°	1176.0	1174.9	1176.0	1173.8	1173.8	1171.6	1171.6	1171.6	1169.5	1171.6	1170.5
7.5°	1217.7	1219.9	1217.7	1215.5	1215.5	1213.3	1212.2	1212.2	1211.1	1210.0	1212.2
10°	1275.8	1278.0	1274.7	1272.5	1271.4	1270.3	1268.1	1267.0	1267.0	1262.6	1263.7
12.5°	1337.1	1337.1	1333.9	1332.8	1332.8	1330.6	1326.2	1325.1	1325.1	1322.9	1320.7
15°	1391.9	1391.9	1389.8	1385.4	1386.5	1383.2	1379.9	1377.7	1377.7	1375.5	1373.3
17.5°	1442.4	1442.4	1439.1	1434.7	1432.5	1431.4	1427.0	1424.8	1424.8	1422.6	1420.4
20°	1492.8	1495.0	1489.5	1485.1	1480.7	1476.3	1472.0	1469.8	1466.5	1467.6	1466.5
22.5°	1553.1	1554.2	1545.4	1539.9	1531.1	1525.7	1519.1	1516.9	1512.5	1512.5	1514.7
25°	1629.8	1628.7	1618.8	1609.0	1599.1	1588.1	1578.3	1576.1	1571.7	1570.6	1571.7
27.5°	1730.6	1729.5	1717.5	1704.3	1691.2	1674.7	1662.7	1656.1	1652.8	1648.4	1650.6
30°	1854.5	1856.7	1842.4	1827.1	1810.6	1790.9	1775.6	1766.8	1760.2	1755.8	1758.0
32.5°	2106.6	2104.4	2082.4	2049.6	2014.5	1968.5	1931.2	1915.8	1903.8	1899.4	1902.7
35°	2359.7	2357.5	2348.8	2338.9	2330.1	2300.5	2273.1	2241.4	2215.1	2198.6	2203.0
37.5°	2479.2	2479.2	2472.6	2470.4	2470.4	2488.0	2509.9	2549.3	2580.0	2582.2	2572.4
40°	2665.5	2665.5	2654.6	2649.1	2645.8	2651.3	2665.5	2679.8	2695.1	2698.4	2687.4
42.5°	2884.7	2874.9	2867.2	2856.2	2855.1	2860.6	2876.0	2893.5	2908.8	2922.0	2899.0
45°	3121.5	3112.7	3105.0	3098.4	3102.8	3117.1	3137.9	3168.6	3190.5	3210.2	3191.6
47.5°	3385.6	3367.0	3374.6	3368.1	3379.0	3407.5	3444.8	3490.8	3513.8	3548.9	3519.3
50°	3714.4	3718.8	3714.4	3714.4	3727.6	3764.8	3819.6	3882.1	3921.6	3941.3	3923.8
52.5°	4203.2	4190.1	4160.5	4169.3	4186.8	4246.0	4317.2	4404.9	4455.3	4502.5	4447.7
55°	4738.1	4740.3	4735.9	4748.0	4781.9	4842.2	4932.1	5064.7	5128.3	5210.5	5144.7
57.5°	5180.9	5196.2	5222.5	5258.7	5332.1	5433.0	5609.4	5812.2	5981.0	6069.8	5966.7
60°	5324.5	5339.8	5403.4	5504.2	5642.3	5848.4	6134.4	6481.9	6785.5	6943.3	6808.5
62.5°	5048.3	5076.8	5171.0	5310.2	5538.2	5860.4	6285.7	6799.7	7267.7	7483.6	7320.3
63°	4958.4	4990.2	5086.6	5228.0	5460.4	5796.9	6256.1	6806.3	7301.7	7529.7	7353.2
65°	4559.4	4580.3	4682.2	4843.3	5102.0	5452.7	5963.4	6614.5	7178.9	7443.1	7255.7
67.5°	3931.4	3958.8	4052.0	4191.2	4442.2	4813.7	5315.7	5964.5	6520.2	6731.8	6571.7
70°	3153.3	3183.9	3260.7	3390.0	3587.3	3931.4	4361.1	4967.2	5384.7	5550.2	5379.3
72.5°	2216.2	2229.3	2285.2	2421.1	2569.1	2843.1	3183.9	3655.2	4056.4	4164.9	4000.5
75°	938.2	939.3	1012.7	1099.3	1284.5	1557.4	1854.5	2260.0	2620.6	2789.4	2581.1
77.5°	300.3	303.6	324.4	356.2	417.6	539.2	758.4	980.9	1311.9	1472.0	1276.9
80°	251.0	255.4	264.1	270.7	275.1	281.7	306.9	342.0	430.7	500.9	404.4
82.5°	215.9	223.6	243.3	251.0	255.4	257.6	260.9	259.8	254.3	252.1	253.2
85°	164.4	183.0	205.0	222.5	224.7	225.8	232.4	234.5	217.0	199.5	217.0
87.5°	71.2	92.1	141.4	156.7	153.4	142.5	152.3	161.1	146.9	107.4	143.6
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1143.1	1143.1	1143.1	1143.1	1143.1	1143.1	1143.1	1143.1
2.5°	1147.5	1149.7	1149.7	1149.7	1149.7	1150.8	1151.9	1150.8
5°	1171.6	1173.8	1172.7	1173.8	1173.8	1174.9	1176.0	1174.9
7.5°	1213.3	1213.3	1213.3	1215.5	1215.5	1217.7	1217.7	1217.7
10°	1264.8	1263.7	1263.7	1265.9	1268.1	1269.2	1271.4	1270.3
12.5°	1320.7	1318.5	1319.6	1321.8	1324.0	1325.1	1327.3	1326.2
15°	1371.1	1370.0	1370.0	1373.3	1374.4	1375.5	1379.9	1379.9
17.5°	1419.3	1419.3	1419.3	1423.7	1424.8	1429.2	1432.5	1432.5
20°	1467.6	1467.6	1467.6	1472.0	1475.2	1481.8	1488.4	1487.3
22.5°	1516.9	1518.0	1520.2	1524.6	1532.2	1542.1	1547.6	1547.6
25°	1578.3	1582.7	1587.0	1593.6	1604.6	1617.7	1626.5	1629.8
27.5°	1657.2	1667.0	1678.0	1687.9	1699.9	1716.4	1728.4	1730.6
30°	1764.6	1778.8	1796.4	1809.5	1824.9	1843.5	1857.8	1865.4
32.5°	1916.9	1952.0	1975.0	2022.2	2050.7	2082.4	2108.7	2119.7
35°	2230.4	2265.5	2296.2	2327.9	2334.5	2345.5	2359.7	2363.0
37.5°	2540.6	2512.1	2484.7	2483.6	2475.9	2478.1	2482.5	2488.0
40°	2675.4	2666.6	2652.4	2657.8	2658.9	2658.9	2667.7	2668.8
42.5°	2892.4	2871.6	2855.1	2868.3	2870.5	2872.7	2881.4	2891.3
45°	3168.6	3136.8	3116.0	3108.3	3116.0	3113.8	3125.9	3128.0
47.5°	3484.2	3442.6	3395.5	3380.1	3375.7	3365.9	3386.7	3384.5
50°	3871.1	3804.3	3747.3	3725.4	3714.4	3708.9	3714.4	3714.4
52.5°	4361.1	4294.2	4216.4	4191.2	4182.4	4194.5	4176.9	4195.6
55°	5035.1	4926.6	4820.3	4786.3	4780.8	4775.4	4777.6	4785.2
57.5°	5793.6	5600.7	5458.2	5374.9	5321.2	5294.9	5266.4	5262.0
60°	6525.7	6175.0	5904.3	5720.1	5589.7	5491.1	5440.6	5423.1
62.5°	6878.6	6365.7	5944.8	5631.4	5437.4	5276.2	5187.5	5164.4
63°	6888.5	6341.6	5895.5	5564.5	5338.7	5194.0	5099.8	5075.7
65°	6705.5	6082.9	5560.1	5196.2	4957.3	4806.0	4689.9	4664.7
67.5°	6039.1	5435.2	4900.3	4530.9	4272.3	4150.6	4022.4	4019.1
70°	4956.2	4417.0	3966.5	3626.7	3410.8	3290.3	3159.8	3163.1
72.5°	3623.4	3144.5	2834.3	2569.1	2341.1	2227.1	2104.4	2116.4
75°	2181.1	1753.6	1474.1	1244.0	1009.4	869.1	774.9	721.2
77.5°	932.7	637.9	458.1	363.9	306.9	283.9	272.9	269.6
80°	324.4	287.2	270.7	266.3	263.0	258.7	251.0	243.3
82.5°	263.0	263.0	254.3	253.2	243.3	235.6	215.9	206.1
85°	233.5	229.1	221.4	218.1	215.9	199.5	174.3	161.1
87.5°	154.5	143.6	137.0	140.3	135.9	121.7	74.5	59.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)