

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: P144269

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P144269
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33699)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LDRL-5XQ-E06-E-7030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (126) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16945.1 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U0 - G4

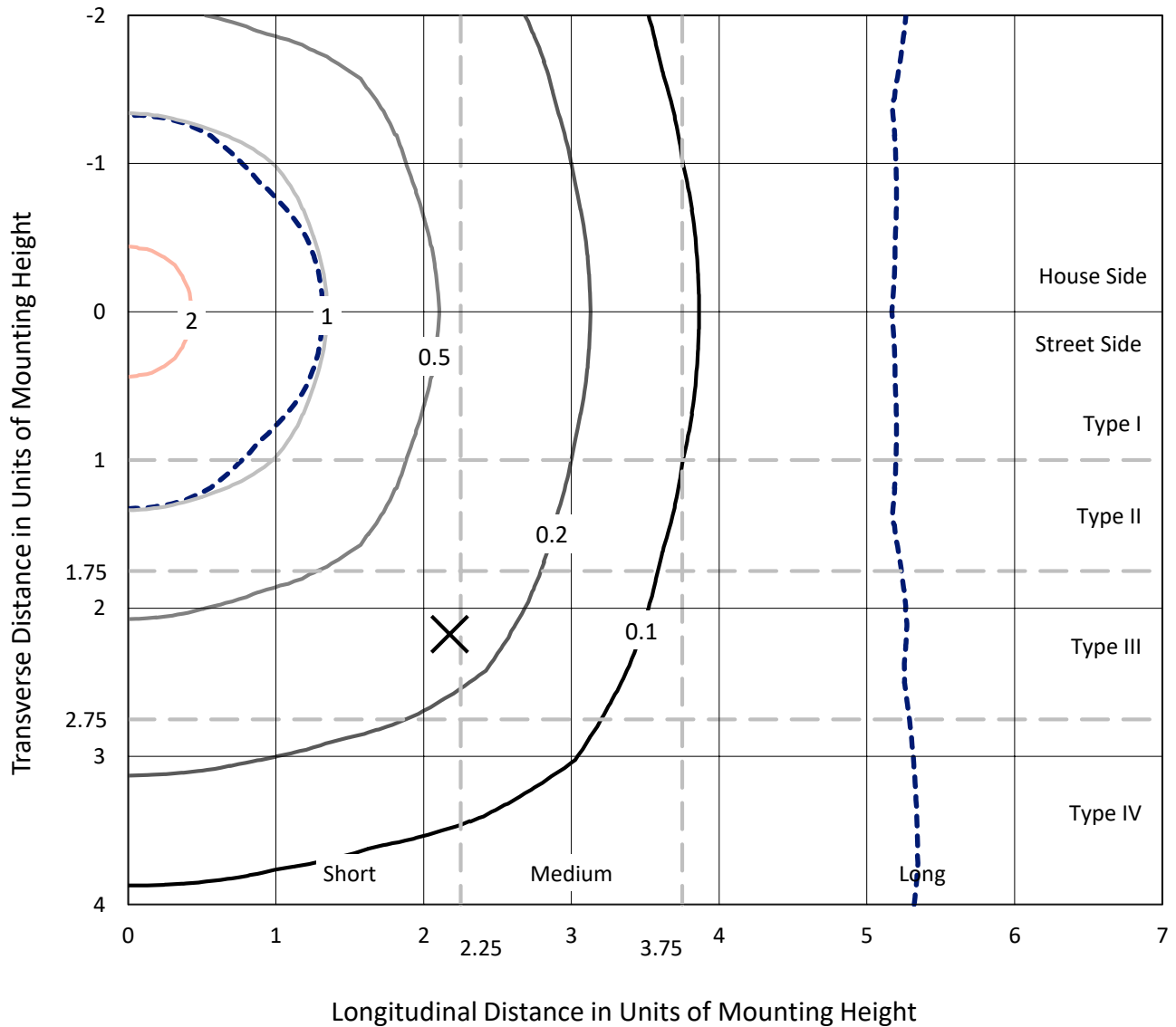
Input Watts (W): 150.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

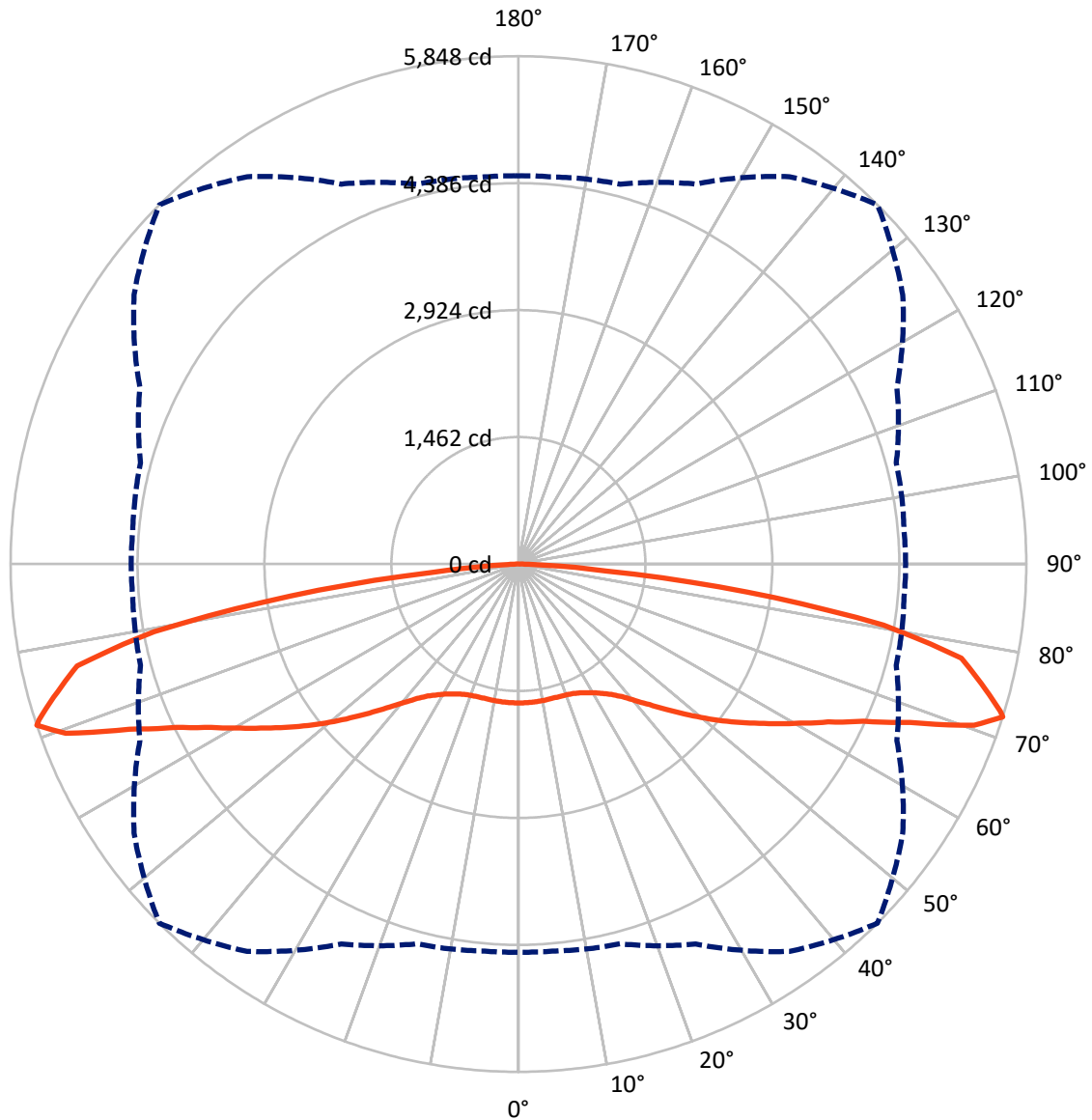


Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8472.5	0.0	8472.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8472.5	0.0	8472.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	16945.1	0.0	16945.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.7	0.9
10°-20°	453.7	2.7
20°-30°	762.1	4.5
30°-40°	1159.9	6.8
40°-50°	1833.7	10.8
50°-60°	2800.6	16.5
60°-70°	4103.0	24.2
70°-80°	4661.3	27.5
80°-90°	1018.2	6.0
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°	16945.1	100.0
0°-180°	16945.1	100.0



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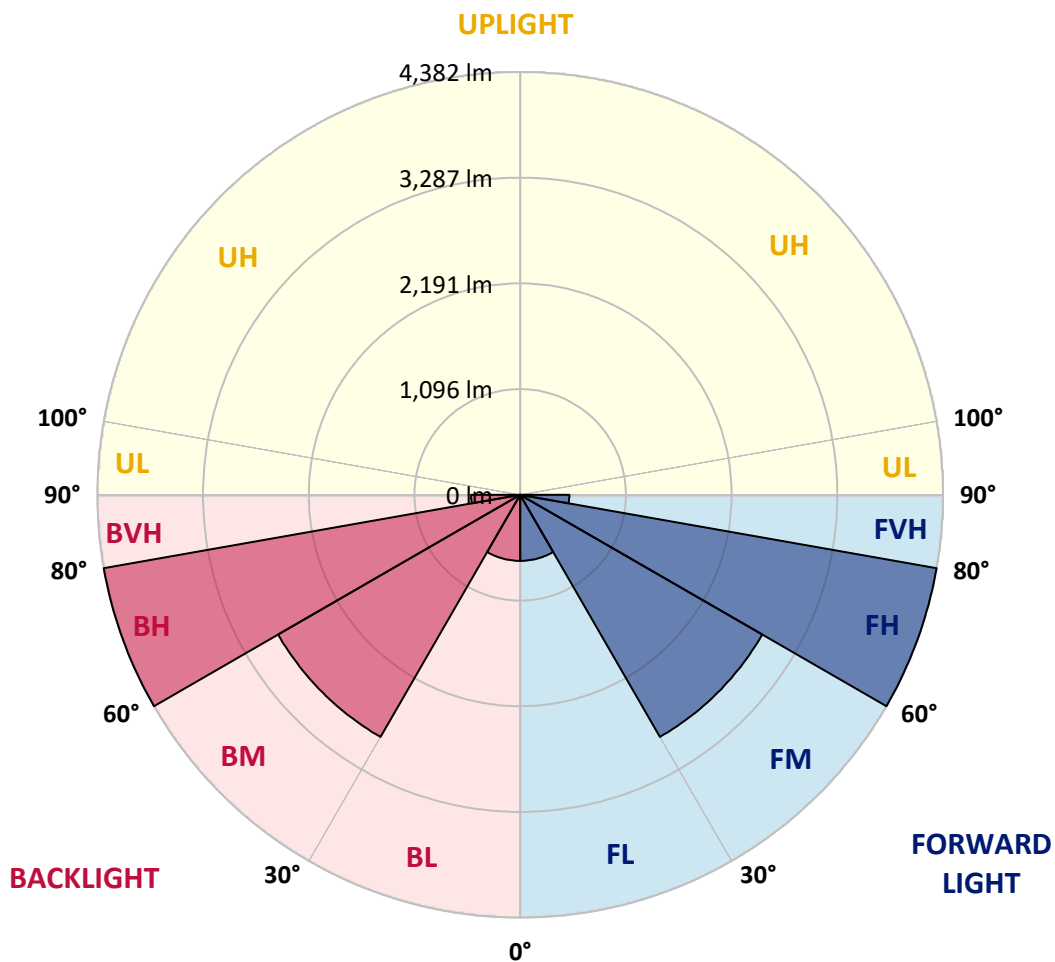
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	684.2	4.0			
FM	(30°-60°)	2897.1	17.1			
FH	(60°-80°)	4382.1	25.9			G2/5000
FVH	(80°-90°)	509.1	3.0			G4/750
BL	(0°-30°)	684.2	4.0	B2/1000		
BM	(30°-60°)	2897.1	17.1	B3/5000		
BH	(60°-80°)	4382.1	25.9	B4/5000		G2/5000
BVH	(80°-90°)	509.1	3.0			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1600.2	1600.2	1600.2	1600.2	1600.2	1600.2	1600.2	1600.2	1600.2	1600.2	1600.2
2.5°	1603.4	1602.9	1601.8	1600.8	1600.2	1599.6	1599.6	1599.6	1599.4	1599.1	1599.4
5°	1603.4	1602.9	1602.1	1601.3	1600.5	1599.6	1599.6	1599.6	1599.4	1599.1	1599.6
7.5°	1601.2	1601.8	1601.0	1600.2	1599.9	1599.6	1599.4	1599.1	1598.6	1598.0	1598.3
10°	1601.8	1604.0	1602.4	1600.8	1600.2	1599.6	1598.5	1597.4	1597.2	1596.9	1596.4
12.5°	1603.0	1605.1	1603.2	1601.3	1600.5	1599.6	1598.6	1597.4	1596.6	1595.8	1595.0
15°	1606.2	1607.8	1606.2	1604.6	1603.0	1601.3	1600.2	1599.1	1597.4	1595.8	1595.0
17.5°	1608.4	1611.2	1609.2	1607.3	1605.4	1603.5	1602.4	1601.3	1600.2	1599.1	1597.7
20°	1612.2	1615.0	1613.4	1611.7	1610.6	1609.5	1608.7	1607.8	1607.0	1606.2	1604.3
22.5°	1619.4	1621.6	1621.0	1620.4	1620.7	1621.0	1621.3	1621.6	1621.0	1620.4	1618.6
25°	1634.2	1634.2	1635.3	1636.4	1638.0	1639.6	1641.0	1642.4	1643.2	1644.0	1641.6
27.5°	1660.0	1662.2	1663.0	1663.8	1666.5	1669.2	1672.2	1675.2	1676.9	1678.6	1676.1
30°	1693.4	1693.4	1695.3	1697.2	1701.8	1706.5	1710.4	1714.2	1717.2	1720.2	1718.3
32.5°	1736.1	1738.8	1741.6	1744.3	1750.1	1755.8	1762.4	1769.0	1772.8	1776.6	1773.6
35°	1801.3	1804.6	1807.4	1810.1	1816.1	1822.1	1829.5	1837.0	1840.2	1843.5	1841.6
37.5°	1893.4	1893.4	1897.2	1901.0	1904.9	1908.8	1918.6	1928.4	1932.6	1936.6	1933.4
40°	2017.8	2018.3	2019.1	2020.0	2023.5	2027.1	2039.2	2051.2	2058.3	2065.4	2058.6
42.5°	2160.8	2166.8	2166.6	2166.3	2168.8	2171.2	2182.8	2194.2	2204.4	2214.5	2210.4
45°	2329.6	2328.5	2326.3	2324.1	2331.5	2338.9	2355.3	2371.8	2380.8	2389.9	2381.4
47.5°	2500.0	2498.4	2495.4	2492.4	2499.8	2507.2	2531.8	2556.4	2569.3	2582.2	2568.5
50°	2669.9	2676.5	2672.6	2668.8	2679.8	2690.7	2722.0	2753.2	2772.1	2791.0	2775.2
52.5°	2857.8	2862.8	2858.4	2854.0	2869.1	2884.2	2921.2	2958.1	2983.4	3008.6	2987.2
55°	3052.4	3046.4	3048.9	3051.4	3065.6	3079.8	3125.3	3170.8	3200.9	3231.0	3207.0
57.5°	3234.4	3236.5	3234.1	3231.6	3254.1	3276.6	3333.8	3391.0	3428.9	3466.8	3436.6
60°	3420.6	3421.2	3415.7	3410.2	3434.7	3459.0	3541.2	3623.4	3672.5	3721.6	3680.2
62.5°	3628.9	3628.4	3618.8	3609.2	3638.0	3666.7	3768.6	3870.6	3938.0	4005.4	3955.0
65°	3884.3	3877.8	3872.2	3866.8	3899.9	3933.0	4059.6	4186.2	4277.2	4368.2	4303.2
67.5°	4260.8	4255.8	4244.3	4232.8	4269.8	4306.8	4469.0	4631.2	4748.8	4866.4	4780.6
70°	4675.1	4665.8	4673.7	4681.6	4767.2	4852.6	5070.2	5287.8	5427.0	5566.2	5422.0
72°	4470.7	4474.5	4501.1	4527.6	4677.6	4827.5	5136.5	5445.6	5647.0	5848.4	5625.6
72.5°	4399.4	4402.7	4432.8	4463.0	4606.0	4749.0	5067.7	5386.4	5594.9	5803.5	5574.4
75°	4097.0	4105.7	4140.5	4175.3	4320.2	4465.2	4786.6	5108.0	5307.8	5507.5	5278.2
77.5°	3603.2	3630.6	3665.9	3701.2	3873.9	4046.5	4409.8	4773.2	4993.8	5214.3	4954.0
80°	2750.0	2740.0	2800.9	2861.7	3026.6	3191.6	3472.8	3753.9	4007.9	4261.9	3969.2
82.5°	1068.6	1092.2	1218.2	1344.2	1517.2	1690.0	1941.9	2193.7	2422.5	2651.2	2407.7
85°	110.2	125.5	170.7	215.9	310.2	404.4	557.9	711.4	861.8	1012.2	848.9
87.5°	44.4	48.8	62.7	76.7	80.3	83.8	101.4	118.9	118.1	117.3	115.6
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°	1600.2	1600.2	1600.2	1600.2	1600.2	1600.2	1600.2	1600.2
2.5°	1599.6	1600.2	1600.8	1600.8	1600.8	1601.6	1602.4	1601.3
5°	1600.2	1600.5	1600.8	1600.8	1600.8	1601.6	1602.4	1601.3
7.5°	1598.6	1598.5	1598.6	1599.4	1600.2	1600.5	1600.8	1600.2
10°	1595.8	1596.1	1596.4	1597.2	1598.0	1598.8	1599.6	1600.2
12.5°	1594.2	1594.4	1594.7	1595.5	1596.4	1597.2	1598.0	1599.1
15°	1594.2	1594.4	1594.7	1595.2	1595.8	1596.9	1598.0	1599.1
17.5°	1596.4	1595.8	1595.2	1595.8	1596.4	1597.7	1599.1	1600.2
20°	1602.4	1601.5	1600.7	1600.7	1600.8	1602.1	1603.5	1603.5
22.5°	1616.6	1613.9	1611.2	1610.6	1610.0	1610.3	1610.6	1611.2
25°	1639.1	1634.7	1630.3	1629.0	1627.6	1627.1	1626.5	1627.6
27.5°	1673.6	1668.7	1663.8	1660.7	1657.7	1656.1	1654.4	1655.0
30°	1716.4	1710.6	1704.8	1699.9	1695.0	1692.8	1690.6	1691.2
32.5°	1770.6	1763.8	1757.0	1750.4	1743.8	1740.8	1737.8	1738.3
35°	1839.6	1831.7	1823.8	1818.3	1812.8	1808.2	1803.5	1807.3
37.5°	1930.1	1922.7	1915.3	1911.7	1908.2	1904.0	1900.0	1900.5
40°	2051.8	2044.1	2036.4	2033.4	2030.4	2025.2	2020.0	2021.1
42.5°	2206.3	2194.8	2183.2	2177.8	2172.3	2169.8	2167.4	2169.0
45°	2372.9	2361.4	2349.8	2345.2	2340.6	2334.0	2327.4	2333.4
47.5°	2554.8	2540.3	2525.8	2517.6	2509.4	2511.5	2513.7	2508.8
50°	2759.2	2734.8	2710.4	2700.9	2691.3	2691.3	2691.3	2690.7
52.5°	2965.8	2932.1	2898.4	2890.2	2882.0	2880.1	2878.1	2876.0
55°	3182.9	3141.5	3100.1	3084.8	3069.4	3071.6	3073.8	3079.8
57.5°	3406.4	3351.9	3297.4	3279.8	3262.3	3263.6	3265.0	3274.9
60°	3638.8	3568.4	3498.0	3478.5	3459.0	3464.2	3469.4	3475.5
62.5°	3904.6	3819.3	3734.1	3708.1	3682.1	3688.7	3695.2	3711.1
65°	4238.3	4132.0	4025.7	3998.6	3971.4	3974.4	3977.4	4004.9
67.5°	4694.8	4553.2	4411.5	4386.6	4361.6	4366.0	4370.4	4414.8
70°	5277.9	5068.0	4858.1	4754.8	4651.5	4635.4	4619.2	4642.7
72°	5402.8	5106.4	4809.8	4657.5	4505.2	4481.3	4457.5	4459.7
72.5°	5345.3	5045.5	4745.8	4597.8	4449.8	4430.4	4411.0	4407.1
75°	5048.8	4755.6	4462.4	4309.5	4156.6	4119.6	4082.7	4082.7
77.5°	4693.7	4324.1	3954.4	3789.5	3624.6	3585.9	3547.3	3517.1
80°	3676.6	3345.3	3014.0	2846.6	2679.2	2617.3	2555.4	2518.7
82.5°	2164.1	1859.4	1554.7	1342.1	1129.4	1065.6	1001.8	913.0
85°	685.6	527.4	369.4	288.2	207.1	167.4	127.6	111.8
87.5°	114.0	92.6	71.2	68.8	66.3	52.1	37.8	31.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)