

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: P143971

Luminaire Tested: **LDRL-5WQ-E06-E-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P143971
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33698)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LDRL-5WQ-E06-E-7050
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (126) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18873.5 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G3

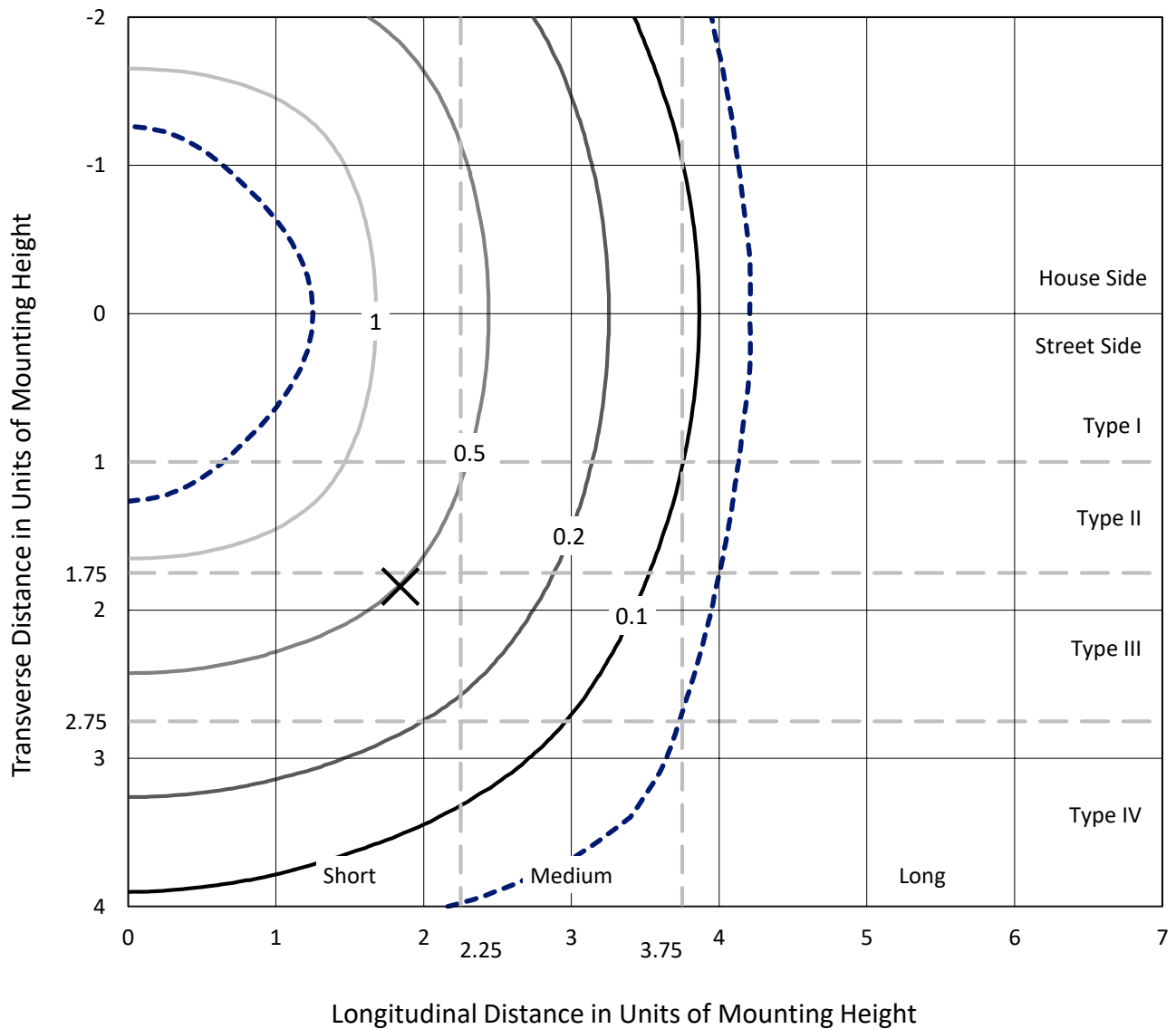
Input Watts (W): 150.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

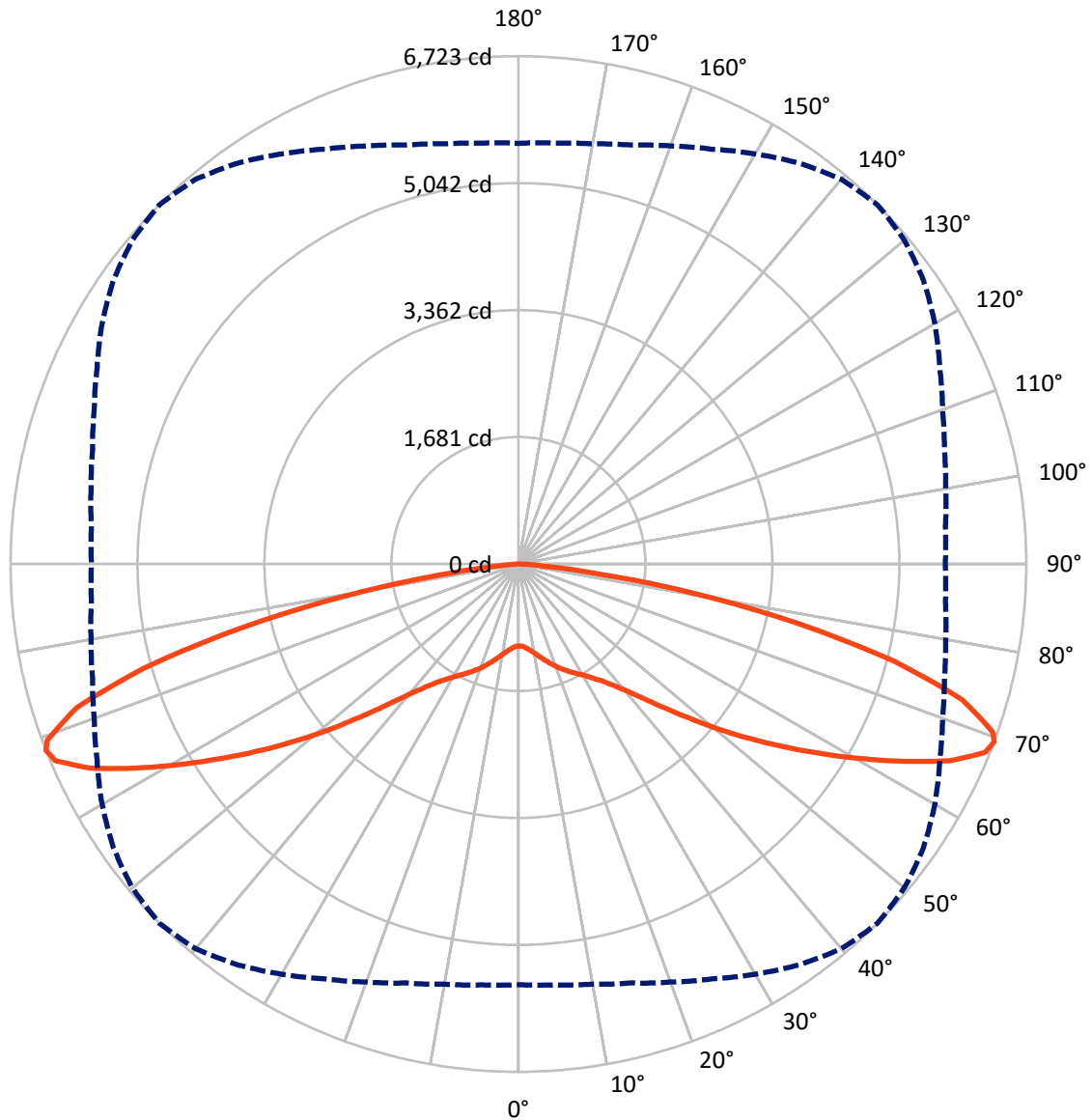
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9436.8	0.0	9436.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9436.8	0.0	9436.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	18873.5	0.0	18873.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.4	0.6
10°-20°	377.1	2.0
20°-30°	727.0	3.9
30°-40°	1191.3	6.3
40°-50°	2071.5	11.0
50°-60°	3679.7	19.5
60°-70°	5713.0	30.3
70°-80°	4551.8	24.1
80°-90°	452.6	2.4
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°	18873.5	100.0
0°-180°	18873.5	100.0



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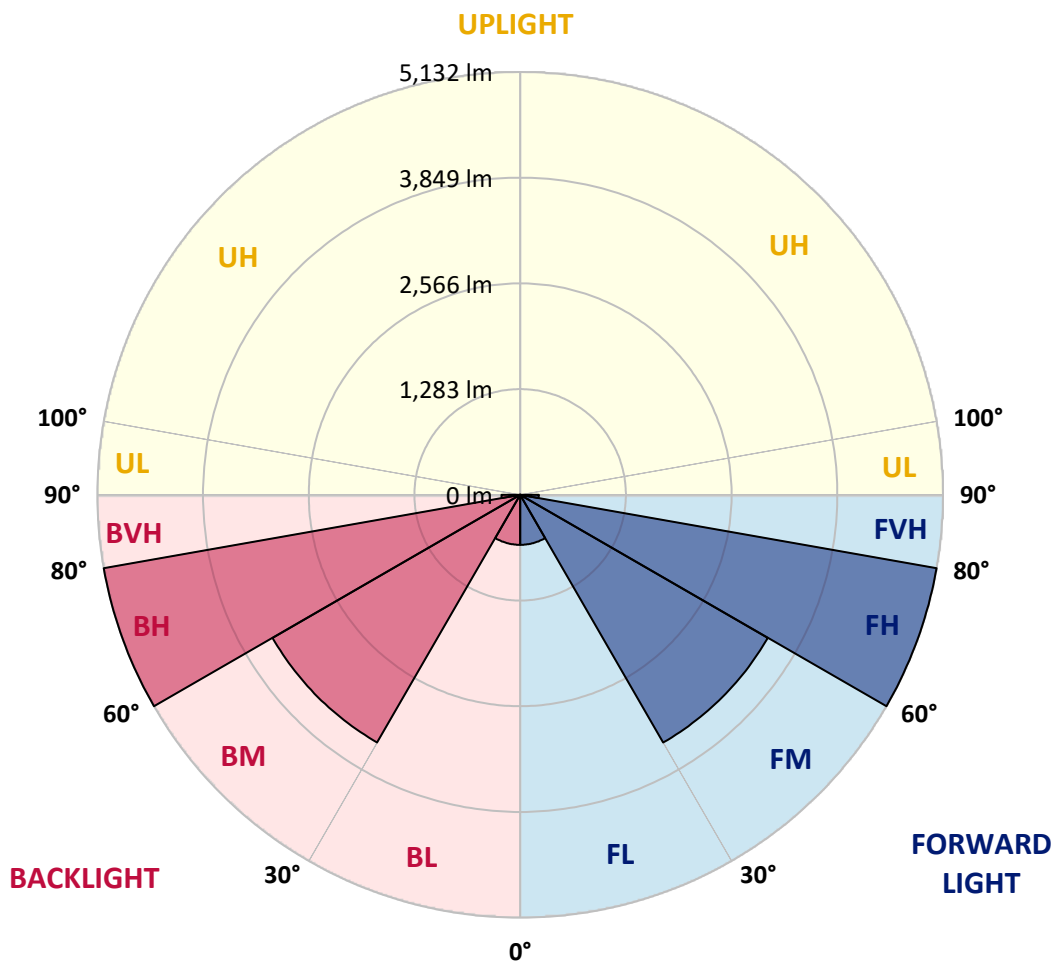
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	606.8	3.2			
FM (30°-60°)	3471.3	18.4			
FH (60°-80°)	5132.4	27.2			G3/7500
FVH (80°-90°)	226.3	1.2			G3/500
BL (0°-30°)	606.8	3.2	B2/1000		
BM (30°-60°)	3471.3	18.4	B3/5000		
BH (60°-80°)	5132.4	27.2	B5		G3/7500
BVH (80°-90°)	226.3	1.2			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1084.8	1084.8	1084.8	1084.8	1084.8	1084.8	1084.8	1084.8	1084.8	1084.8	1084.8
2.5°	1093.4	1093.4	1093.4	1092.2	1092.2	1091.0	1092.2	1091.0	1091.0	1091.0	1091.0
5°	1121.7	1119.3	1119.3	1118.0	1120.5	1120.5	1118.0	1119.3	1118.0	1119.3	1119.3
7.5°	1157.4	1157.4	1157.4	1156.2	1158.7	1157.4	1156.2	1157.4	1157.4	1156.2	1156.2
10°	1201.8	1203.0	1201.8	1201.8	1205.5	1204.2	1205.5	1205.5	1206.7	1205.5	1205.5
12.5°	1253.5	1253.5	1254.7	1256.0	1257.2	1258.4	1262.1	1260.9	1263.3	1260.9	1260.9
15°	1313.8	1316.3	1313.8	1313.8	1317.5	1320.0	1321.2	1321.2	1323.7	1322.4	1320.0
17.5°	1377.9	1379.1	1377.9	1376.6	1380.3	1384.0	1385.2	1385.2	1388.9	1386.5	1386.5
20°	1443.1	1444.3	1441.9	1440.7	1445.6	1445.6	1448.0	1449.3	1453.0	1454.2	1450.5
22.5°	1503.4	1504.7	1503.4	1502.2	1507.1	1507.1	1510.8	1512.1	1517.0	1515.8	1515.8
25°	1562.6	1562.6	1561.3	1561.3	1566.2	1567.5	1571.2	1573.6	1578.6	1578.6	1578.6
27.5°	1616.7	1618.0	1615.5	1614.3	1624.1	1627.8	1630.3	1635.2	1638.9	1641.4	1640.1
30°	1678.3	1678.3	1677.1	1680.8	1686.9	1691.8	1696.8	1704.2	1711.5	1709.1	1709.1
32.5°	1750.9	1753.4	1752.2	1757.1	1764.5	1771.9	1778.0	1786.7	1790.3	1796.5	1791.6
35°	1848.2	1853.1	1850.7	1855.6	1861.8	1866.7	1880.2	1888.9	1895.0	1898.7	1896.2
37.5°	1970.1	1967.7	1972.6	1973.8	1986.1	1992.3	2008.3	2020.6	2030.5	2034.2	2031.7
40°	2121.6	2117.9	2124.0	2130.2	2146.2	2152.4	2170.8	2189.3	2202.8	2207.8	2205.3
42.5°	2302.6	2307.5	2317.4	2326.0	2348.1	2365.4	2386.3	2413.4	2428.2	2434.3	2425.7
45°	2540.2	2531.6	2550.1	2572.2	2584.6	2622.7	2657.2	2685.5	2710.1	2720.0	2710.1
47.5°	2811.1	2809.9	2832.1	2859.1	2891.2	2926.9	2967.5	3004.4	3047.5	3050.0	3037.7
50°	3110.3	3135.0	3147.3	3174.4	3233.5	3277.8	3329.5	3384.9	3424.3	3436.6	3414.5
52.5°	3471.1	3489.6	3497.0	3542.5	3596.7	3650.9	3723.5	3790.0	3835.6	3840.5	3829.4
55°	3862.7	3877.4	3891.0	3946.4	4005.5	4053.5	4145.9	4211.1	4256.7	4273.9	4266.5
57.5°	4267.8	4281.3	4298.6	4358.9	4419.2	4487.0	4574.4	4650.7	4703.7	4735.7	4727.1
60°	4717.2	4717.2	4756.6	4816.9	4866.2	4946.2	5037.4	5126.0	5183.9	5234.4	5220.8
62.5°	5190.0	5203.6	5241.8	5291.0	5342.7	5416.6	5520.0	5625.9	5714.6	5752.8	5751.5
65°	5548.4	5573.0	5623.5	5680.1	5766.3	5853.7	5984.2	6116.0	6223.1	6278.5	6278.5
67.5°	5653.0	5669.0	5731.8	5818.0	5942.4	6081.5	6258.8	6442.3	6588.8	6661.5	6615.9
69°	5569.3	5592.7	5648.1	5741.7	5889.4	6059.4	6269.9	6478.0	6647.9	6723.0	6670.1
70°	5472.0	5497.9	5553.3	5645.6	5798.3	5979.3	6189.9	6414.0	6596.2	6660.2	6599.9
72.5°	5075.5	5107.5	5146.9	5227.0	5364.9	5534.8	5724.4	5921.4	6096.3	6146.8	6071.7
75°	4399.5	4405.7	4425.4	4484.5	4533.7	4654.4	4815.7	4972.1	5103.8	5133.4	5053.4
77.5°	3114.0	3080.8	3047.5	3098.0	3137.4	3292.6	3467.4	3595.5	3733.4	3775.2	3694.0
80°	1365.5	1353.2	1400.0	1466.5	1640.1	1743.6	1914.7	2098.2	2215.2	2351.8	2205.3
82.5°	269.7	284.4	328.8	406.3	501.1	630.4	742.5	869.3	983.8	1035.5	982.6
85°	109.6	119.4	135.4	151.5	162.5	182.2	214.3	266.0	293.1	296.7	282.0
87.5°	45.6	52.9	71.4	85.0	86.2	82.5	85.0	87.4	71.4	57.9	72.6
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°	1084.8	1084.8	1084.8	1084.8	1084.8	1084.8	1084.8	1084.8
2.5°	1091.0	1092.2	1091.0	1092.2	1091.0	1091.0	1092.2	1091.0
5°	1118.0	1119.3	1118.0	1116.8	1115.6	1116.8	1116.8	1116.8
7.5°	1156.2	1155.0	1153.8	1153.8	1152.5	1151.3	1153.8	1153.8
10°	1203.0	1201.8	1199.3	1199.3	1198.1	1198.1	1198.1	1198.1
12.5°	1259.6	1256.0	1254.7	1251.0	1249.8	1248.6	1248.6	1249.8
15°	1318.8	1315.1	1313.8	1307.7	1307.7	1306.4	1306.4	1306.4
17.5°	1381.5	1377.9	1372.9	1372.9	1369.2	1366.8	1368.0	1365.5
20°	1445.6	1440.7	1438.2	1437.0	1432.0	1432.0	1432.0	1430.8
22.5°	1508.4	1504.7	1501.0	1496.1	1491.1	1489.9	1489.9	1488.7
25°	1572.4	1566.2	1558.9	1553.9	1549.0	1545.3	1545.3	1545.3
27.5°	1636.4	1629.0	1618.0	1611.8	1604.4	1600.7	1600.7	1599.5
30°	1704.2	1695.5	1685.7	1677.1	1667.2	1663.5	1662.3	1659.8
32.5°	1785.4	1776.8	1767.0	1754.6	1744.8	1738.6	1738.6	1734.9
35°	1888.9	1879.0	1871.6	1855.6	1843.3	1833.4	1834.7	1837.1
37.5°	2024.3	2012.0	2005.8	1986.1	1970.1	1960.3	1960.3	1959.0
40°	2196.7	2184.4	2170.8	2152.4	2132.7	2119.1	2115.4	2115.4
42.5°	2415.9	2404.8	2386.3	2360.5	2337.1	2322.3	2310.0	2311.2
45°	2690.4	2676.9	2651.0	2619.0	2590.7	2569.8	2552.5	2552.5
47.5°	3024.1	2995.8	2960.1	2931.8	2883.8	2851.8	2839.4	2837.0
50°	3404.6	3351.7	3307.3	3266.7	3216.2	3183.0	3164.5	3159.6
52.5°	3803.6	3748.2	3692.7	3639.8	3578.2	3543.8	3514.2	3511.7
55°	4237.0	4166.8	4096.6	4044.9	3972.3	3936.6	3907.0	3889.8
57.5°	4679.0	4600.2	4549.8	4475.9	4399.5	4373.7	4345.4	4324.4
60°	5176.5	5090.3	5023.8	4946.2	4897.0	4841.6	4814.5	4798.5
62.5°	5685.0	5605.0	5520.0	5446.2	5377.2	5339.0	5302.1	5283.6
65°	6202.2	6070.4	5969.5	5867.3	5786.0	5717.0	5659.2	5651.8
67.5°	6519.9	6353.6	6185.0	6036.0	5916.5	5819.2	5760.1	5739.2
69°	6545.7	6364.7	6154.2	5975.6	5837.7	5744.1	5674.0	5651.8
70°	6474.3	6292.1	6070.4	5878.4	5735.5	5633.3	5575.4	5538.5
72.5°	5952.2	5792.2	5579.1	5389.5	5260.2	5140.8	5082.9	5068.1
75°	4910.5	4740.6	4544.8	4453.7	4363.8	4288.7	4249.3	4245.6
77.5°	3487.1	3313.5	3164.5	3045.1	2947.8	2899.8	2910.9	2870.2
80°	1996.0	1769.4	1589.6	1483.7	1339.7	1253.5	1156.2	1226.4
82.5°	858.2	693.2	528.2	429.7	327.5	259.8	214.3	199.5
85°	240.1	195.8	163.8	150.2	135.4	120.7	102.2	94.8
87.5°	81.3	77.6	69.0	69.0	62.8	52.9	36.9	33.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)