

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: P143969

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P143969
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-7030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (126) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16799.6 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

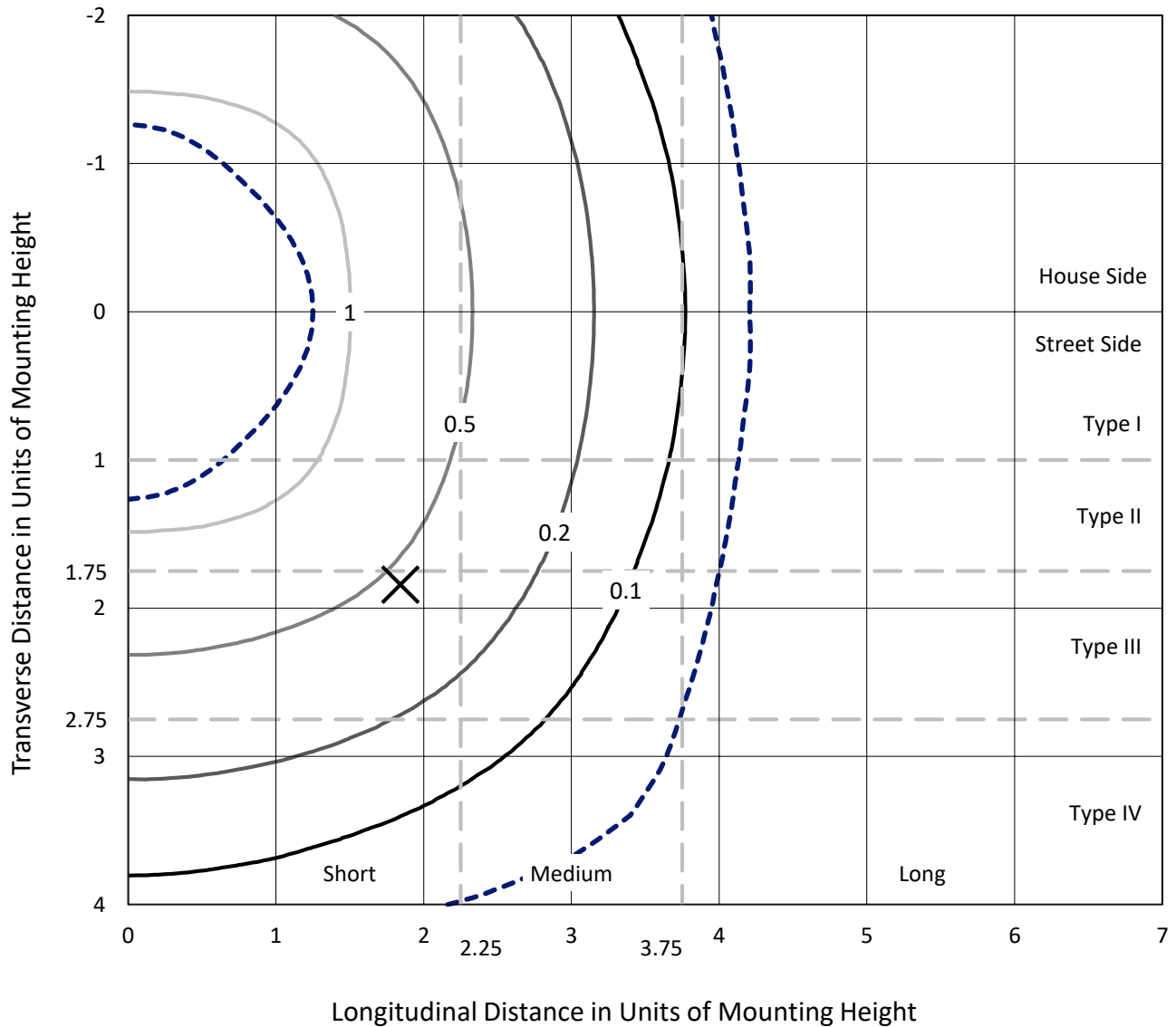
Input Watts (W): 150.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

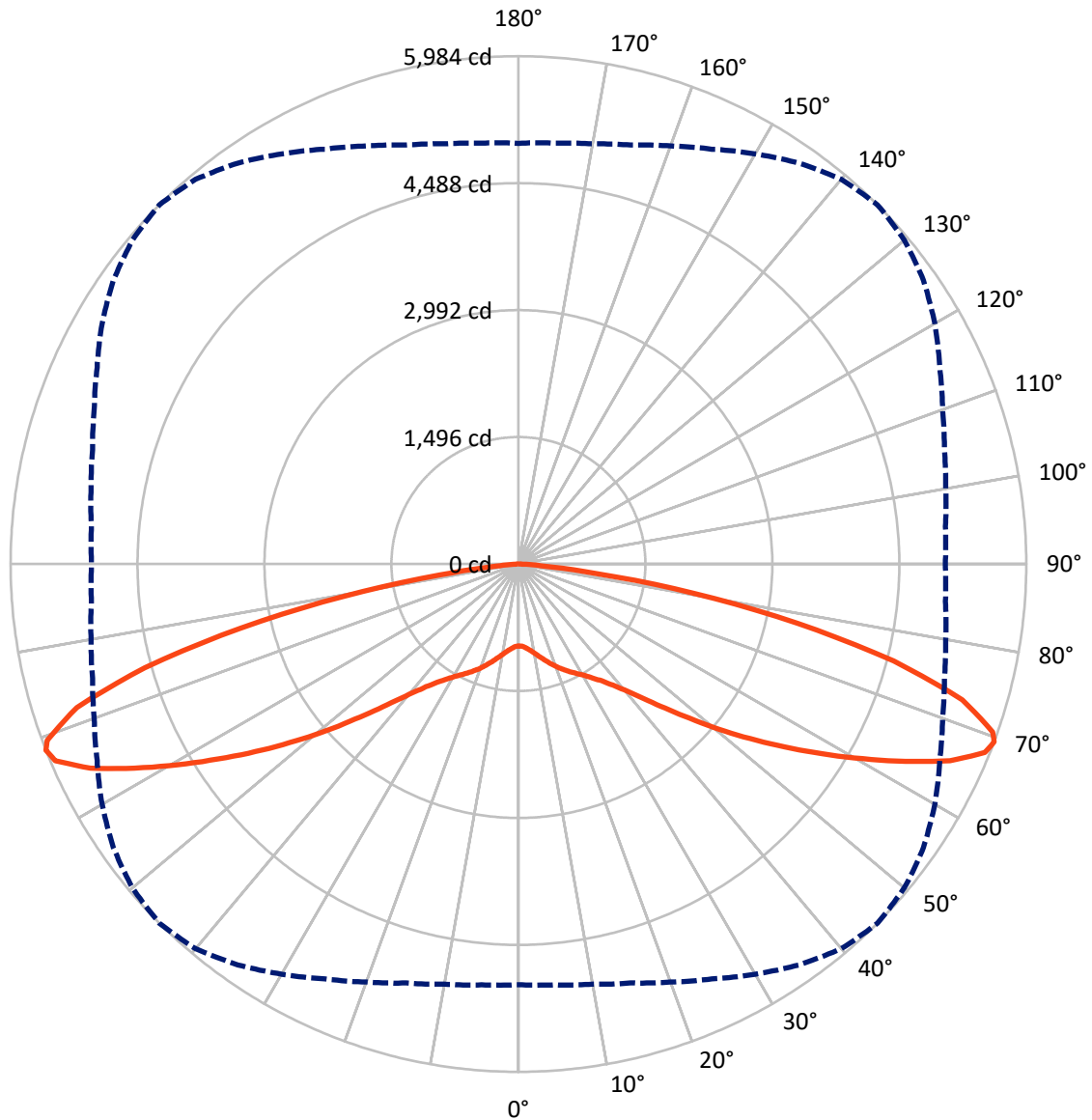
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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	8399.8	0.0	8399.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8399.8	0.0	8399.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	16799.6	0.0	16799.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.4	0.6
10°-20°	335.7	2.0
20°-30°	647.1	3.9
30°-40°	1060.4	6.3
40°-50°	1843.9	11.0
50°-60°	3275.4	19.5
60°-70°	5085.2	30.3
70°-80°	4051.6	24.1
80°-90°	402.9	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°	16799.6	100.0
0°-180°	16799.6	100.0



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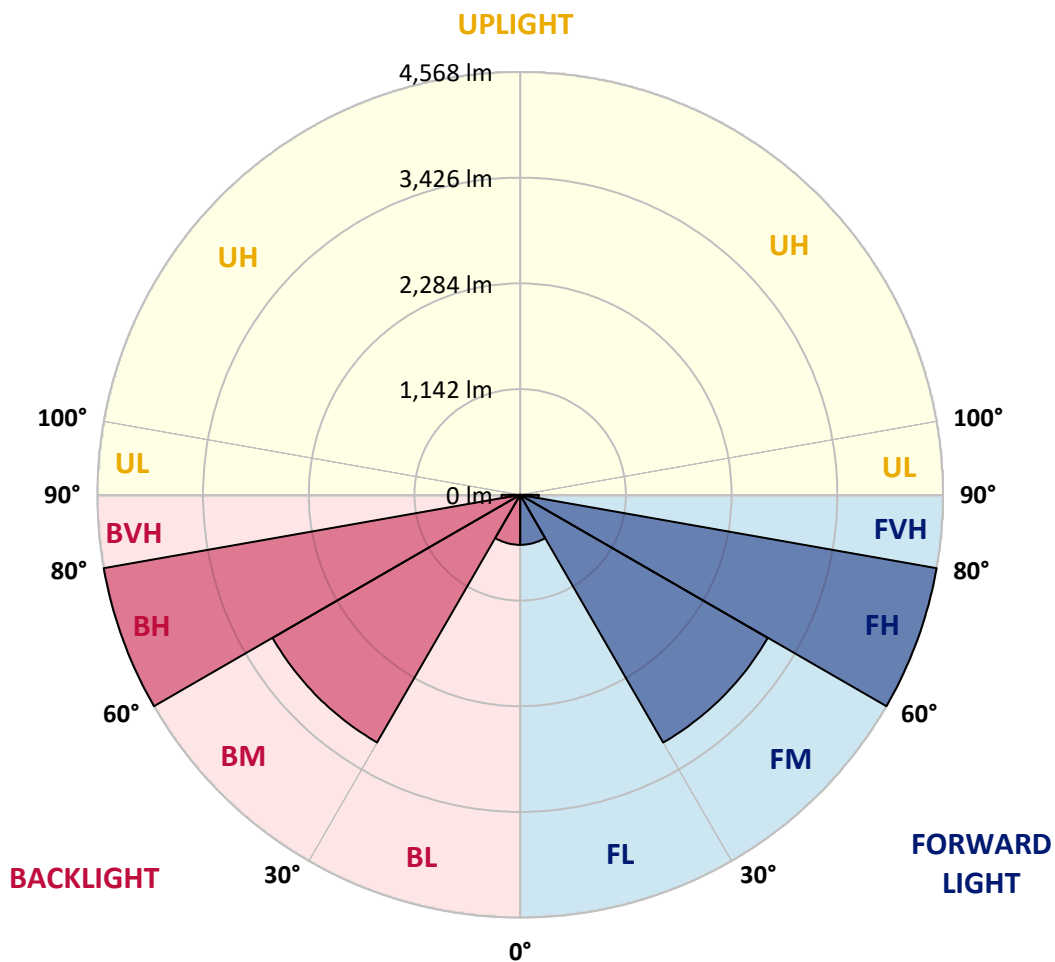
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	540.1	3.2			
FM	(30°-60°)	3089.8	18.4			
FH	(60°-80°)	4568.4	27.2			G2/5000
FVH	(80°-90°)	201.4	1.2			G2/225
BL	(0°-30°)	540.1	3.2	B2/1000		
BM	(30°-60°)	3089.8	18.4	B3/5000		
BH	(60°-80°)	4568.4	27.2	B4/5000		G2/5000
BVH	(80°-90°)	201.4	1.2			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°	965.6	965.6	965.6	965.6	965.6	965.6	965.6	965.6	965.6	965.6	965.6
2.5°	973.3	973.3	973.3	972.2	972.2	971.1	972.2	971.1	971.1	971.1	971.1
5°	998.5	996.3	996.3	995.2	997.4	997.4	995.2	996.3	995.2	996.3	996.3
7.5°	1030.3	1030.3	1030.3	1029.2	1031.4	1030.3	1029.2	1030.3	1030.3	1029.2	1029.2
10°	1069.7	1070.8	1069.7	1069.7	1073.0	1071.9	1073.0	1073.0	1074.1	1073.0	1073.0
12.5°	1115.7	1115.7	1116.8	1117.9	1119.0	1120.1	1123.4	1122.3	1124.5	1122.3	1122.3
15°	1169.5	1171.6	1169.5	1169.5	1172.7	1174.9	1176.0	1176.0	1178.2	1177.1	1174.9
17.5°	1226.4	1227.5	1226.4	1225.4	1228.6	1231.9	1233.0	1233.0	1236.3	1234.1	1234.1
20°	1284.5	1285.6	1283.4	1282.3	1286.7	1286.7	1288.9	1290.0	1293.3	1294.4	1291.1
22.5°	1338.2	1339.3	1338.2	1337.1	1341.5	1341.5	1344.8	1345.9	1350.3	1349.2	1349.2
25°	1390.8	1390.8	1389.8	1389.8	1394.1	1395.2	1398.5	1400.7	1405.1	1405.1	1405.1
27.5°	1439.1	1440.2	1438.0	1436.9	1445.7	1448.9	1451.1	1455.5	1458.8	1461.0	1459.9
30°	1493.9	1493.9	1492.8	1496.1	1501.5	1505.9	1510.3	1516.9	1523.5	1521.3	1521.3
32.5°	1558.5	1560.7	1559.6	1564.0	1570.6	1577.2	1582.7	1590.3	1593.6	1599.1	1594.7
35°	1645.1	1649.5	1647.3	1651.7	1657.2	1661.6	1673.6	1681.3	1686.8	1690.1	1687.9
37.5°	1753.6	1751.4	1755.8	1756.9	1767.9	1773.4	1787.6	1798.6	1807.3	1810.6	1808.4
40°	1888.4	1885.2	1890.6	1896.1	1910.4	1915.8	1932.3	1948.7	1960.8	1965.2	1963.0
42.5°	2049.6	2053.9	2062.7	2070.4	2090.1	2105.5	2124.1	2148.2	2161.4	2166.8	2159.2
45°	2261.1	2253.4	2269.9	2289.6	2300.5	2334.5	2365.2	2390.4	2412.3	2421.1	2412.3
47.5°	2502.2	2501.1	2520.8	2545.0	2573.5	2605.2	2641.4	2674.3	2712.7	2714.8	2703.9
50°	2768.5	2790.5	2801.4	2825.5	2878.1	2917.6	2963.6	3013.0	3048.0	3059.0	3039.3
52.5°	3089.7	3106.1	3112.7	3153.3	3201.5	3249.7	3314.4	3373.6	3414.1	3418.5	3408.6
55°	3438.2	3451.4	3463.4	3512.7	3565.4	3608.1	3690.3	3748.4	3788.9	3804.3	3797.7
57.5°	3798.8	3810.9	3826.2	3879.9	3933.6	3993.9	4071.7	4139.7	4186.8	4215.3	4207.6
60°	4198.9	4198.9	4233.9	4287.6	4331.5	4402.7	4483.8	4562.7	4614.2	4659.2	4647.1
62.5°	4619.7	4631.8	4665.8	4709.6	4755.6	4821.4	4913.5	5007.7	5086.6	5120.6	5119.5
65°	4938.7	4960.6	5005.5	5055.9	5132.7	5210.5	5326.7	5443.9	5539.3	5588.6	5588.6
67.5°	5031.8	5046.1	5102.0	5178.7	5289.4	5413.2	5571.1	5734.4	5864.8	5929.5	5888.9
69°	4957.3	4978.1	5027.4	5110.7	5242.3	5393.5	5580.9	5766.2	5917.4	5984.3	5937.1
70°	4870.7	4893.7	4943.1	5025.3	5161.2	5322.3	5509.7	5709.2	5871.4	5928.4	5874.7
72.5°	4517.8	4546.3	4581.4	4652.6	4775.4	4926.6	5095.4	5270.8	5426.4	5471.3	5404.5
75°	3916.1	3921.6	3939.1	3991.7	4035.5	4143.0	4286.5	4425.7	4543.0	4569.3	4498.1
77.5°	2771.8	2742.2	2712.7	2757.6	2792.7	2930.8	3086.4	3200.4	3323.1	3360.4	3288.1
80°	1215.5	1204.5	1246.2	1305.4	1459.9	1552.0	1704.3	1867.6	1971.7	2093.4	1963.0
82.5°	240.0	253.2	292.6	361.7	446.1	561.2	660.9	773.8	875.7	921.8	874.6
85°	97.5	106.3	120.6	134.8	144.7	162.2	190.7	236.7	260.9	264.1	251.0
87.5°	40.6	47.1	63.6	75.6	76.7	73.4	75.6	77.8	63.6	51.5	64.7
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°	965.6	965.6	965.6	965.6	965.6	965.6	965.6	965.6
2.5°	971.1	972.2	971.1	972.2	971.1	971.1	972.2	971.1
5°	995.2	996.3	995.2	994.1	993.0	994.1	994.1	994.1
7.5°	1029.2	1028.1	1027.0	1027.0	1025.9	1024.8	1027.0	1027.0
10°	1070.8	1069.7	1067.5	1067.5	1066.4	1066.4	1066.4	1066.4
12.5°	1121.2	1117.9	1116.8	1113.6	1112.5	1111.4	1111.4	1112.5
15°	1173.8	1170.5	1169.5	1164.0	1164.0	1162.9	1162.9	1162.9
17.5°	1229.7	1226.4	1222.1	1222.1	1218.8	1216.6	1217.7	1215.5
20°	1286.7	1282.3	1280.2	1279.1	1274.7	1274.7	1274.7	1273.6
22.5°	1342.6	1339.3	1336.0	1331.7	1327.3	1326.2	1326.2	1325.1
25°	1399.6	1394.1	1387.6	1383.2	1378.8	1375.5	1375.5	1375.5
27.5°	1456.6	1450.0	1440.2	1434.7	1428.1	1424.8	1424.8	1423.7
30°	1516.9	1509.2	1500.5	1492.8	1484.0	1480.7	1479.6	1477.4
32.5°	1589.2	1581.6	1572.8	1561.8	1553.1	1547.6	1547.6	1544.3
35°	1681.3	1672.5	1666.0	1651.7	1640.7	1632.0	1633.1	1635.3
37.5°	1801.9	1790.9	1785.4	1767.9	1753.6	1744.9	1744.9	1743.8
40°	1955.3	1944.3	1932.3	1915.8	1898.3	1886.3	1883.0	1883.0
42.5°	2150.4	2140.5	2124.1	2101.1	2080.2	2067.1	2056.1	2057.2
45°	2394.8	2382.7	2359.7	2331.2	2306.0	2287.4	2272.1	2272.1
47.5°	2691.8	2666.6	2634.8	2609.6	2566.9	2538.4	2527.4	2525.2
50°	3030.5	2983.4	2943.9	2907.7	2862.8	2833.2	2816.8	2812.4
52.5°	3385.6	3336.3	3287.0	3239.8	3185.0	3154.3	3128.0	3125.9
55°	3771.4	3708.9	3646.5	3600.4	3535.8	3504.0	3477.7	3462.3
57.5°	4164.9	4094.7	4049.8	3984.0	3916.1	3893.1	3867.9	3849.2
60°	4607.7	4530.9	4471.8	4402.7	4358.9	4309.6	4285.4	4271.2
62.5°	5060.3	4989.1	4913.5	4847.7	4786.3	4752.3	4719.5	4703.0
65°	5520.7	5403.4	5313.5	5222.5	5150.2	5088.8	5037.3	5030.7
67.5°	5803.4	5655.5	5505.3	5372.7	5266.4	5179.8	5127.2	5108.6
69°	5826.4	5665.3	5477.9	5319.0	5196.2	5112.9	5050.5	5030.7
70°	5762.9	5600.7	5403.4	5232.4	5105.3	5014.3	4962.8	4929.9
72.5°	5298.2	5155.7	4966.1	4797.3	4682.2	4575.9	4524.4	4511.2
75°	4370.9	4219.7	4045.4	3964.3	3884.3	3817.4	3782.4	3779.1
77.5°	3103.9	2949.4	2816.8	2710.5	2623.9	2581.1	2591.0	2554.8
80°	1776.6	1575.0	1415.0	1320.7	1192.5	1115.7	1029.2	1091.6
82.5°	763.9	617.1	470.2	382.5	291.5	231.3	190.7	177.6
85°	213.7	174.3	145.8	133.7	120.6	107.4	91.0	84.4
87.5°	72.3	69.0	61.4	61.4	55.9	47.1	32.9	29.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)