

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: P144259

Luminaire Tested: **LDRL-5XQ-E05-E-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P144259
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-E05-E-7030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (105) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14120.9 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U0 - G3

Input Watts (W): 127.3
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

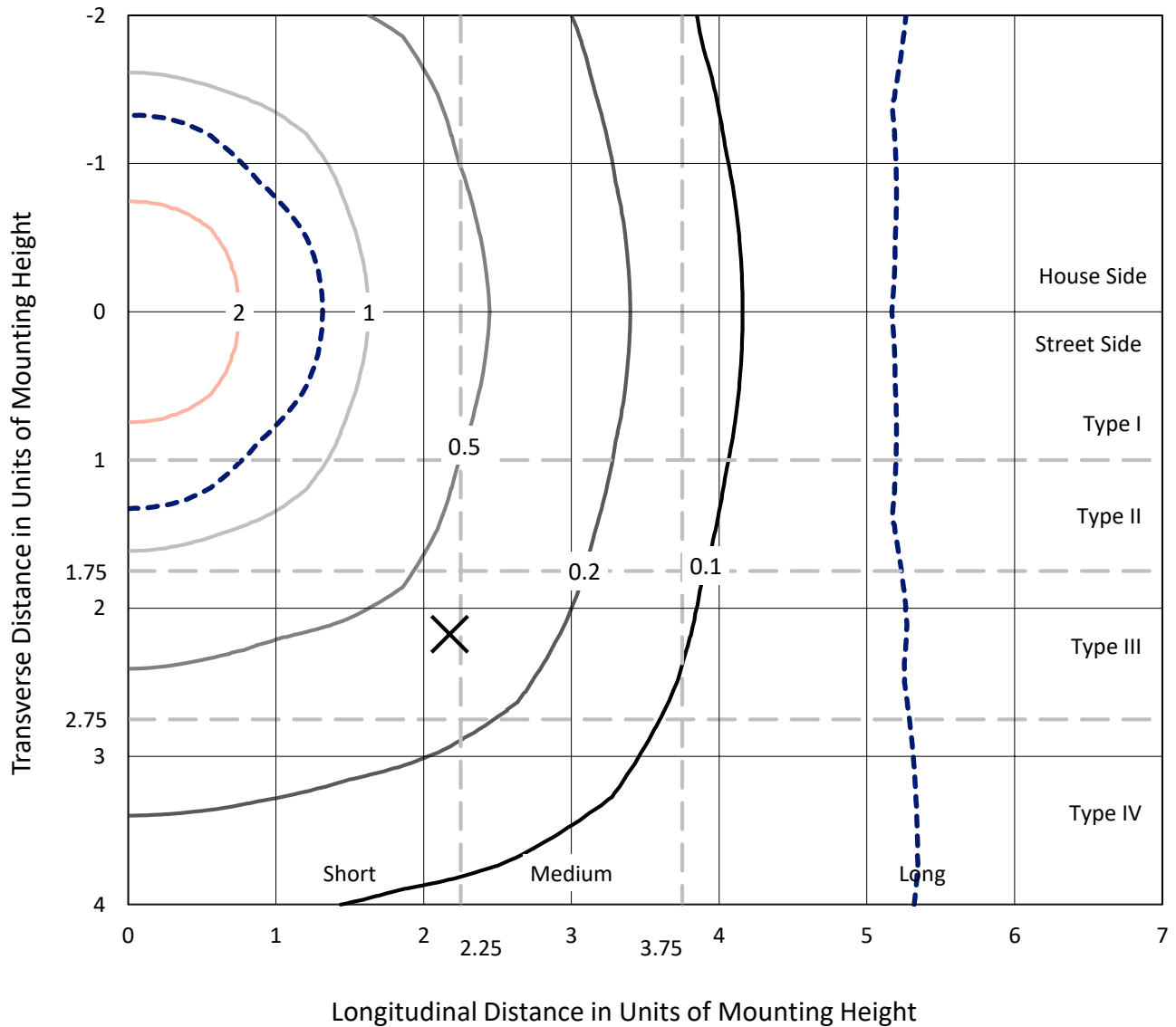


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

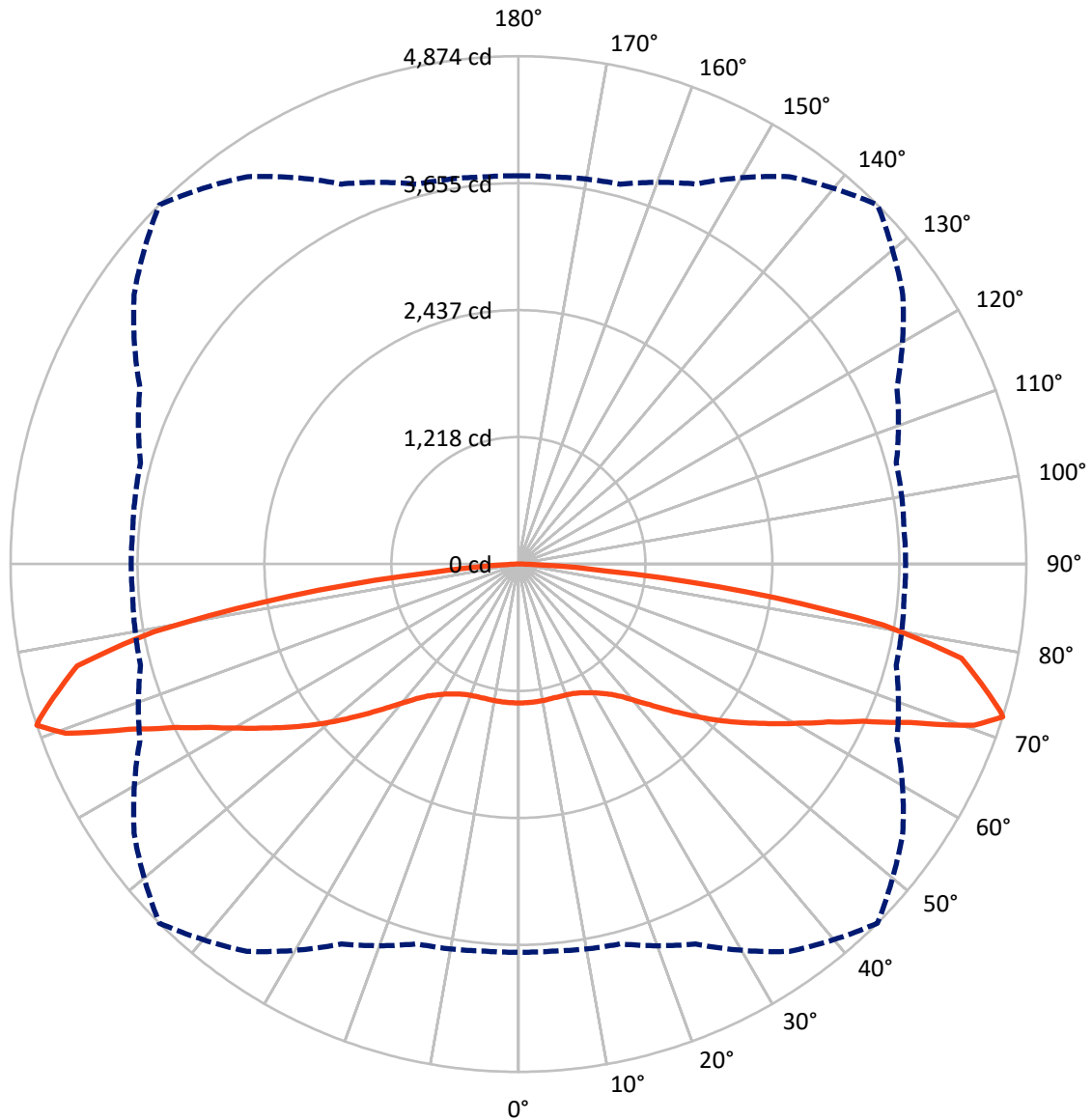


Based on 20 foot mounting height. Maximum calculated value = 3.3 fc
 Type V - Short - Non-Cutoff

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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	7060.4	0.0	7060.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7060.4	0.0	7060.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	14120.9	0.0	14120.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.3	0.9
10°-20°	378.1	2.7
20°-30°	635.1	4.5
30°-40°	966.6	6.8
40°-50°	1528.0	10.8
50°-60°	2333.8	16.5
60°-70°	3419.1	24.2
70°-80°	3884.4	27.5
80°-90°	848.5	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°	14120.9	100.0
0°-180°	14120.9	100.0



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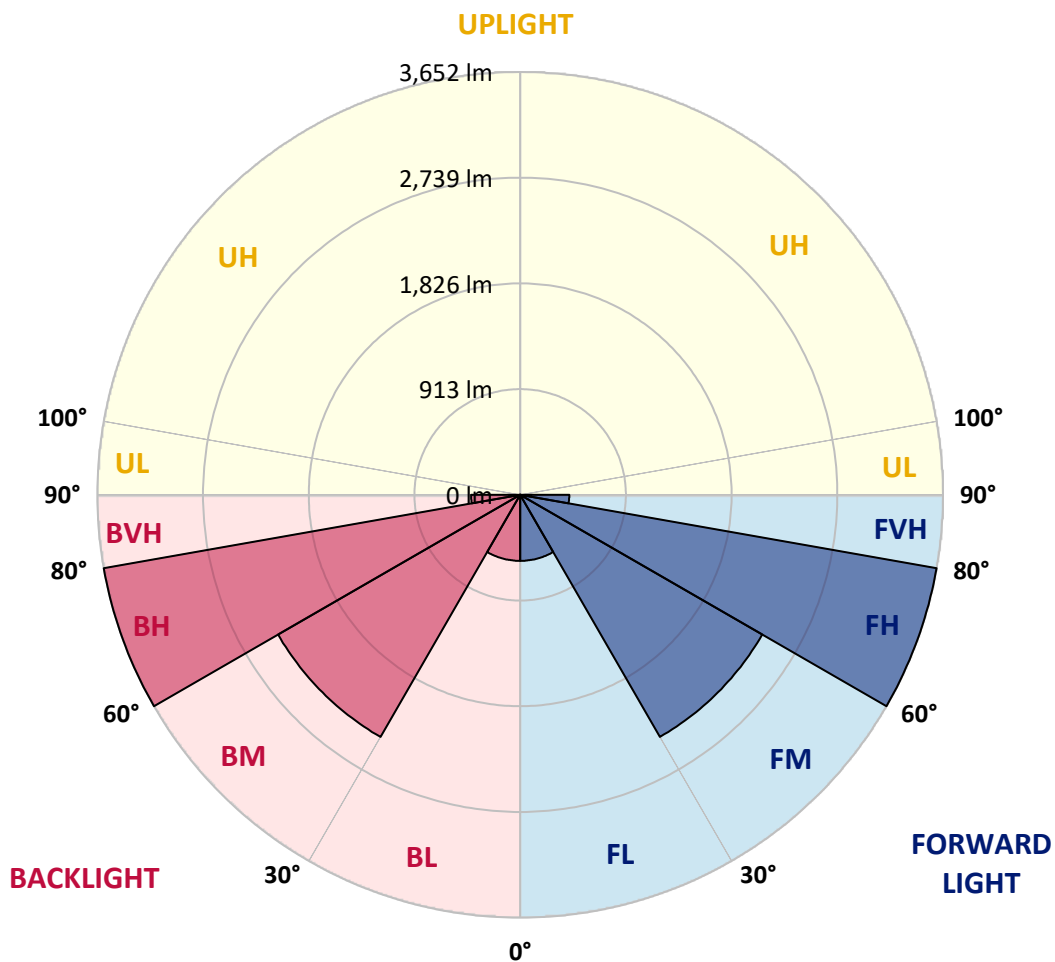
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	570.2	4.0			
FM	(30°-60°)	2414.2	17.1			
FH	(60°-80°)	3651.8	25.9			G2/5000
FVH	(80°-90°)	424.2	3.0			G3/500
BL	(0°-30°)	570.2	4.0	B2/1000		
BM	(30°-60°)	2414.2	17.1	B2/2500		
BH	(60°-80°)	3651.8	25.9	B4/5000		G2/5000
BVH	(80°-90°)	424.2	3.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5
2.5°	1336.2	1335.8	1334.9	1333.9	1333.5	1333.0	1333.0	1333.0	1332.8	1332.6	1332.8
5°	1336.2	1335.8	1335.1	1334.4	1333.7	1333.0	1333.0	1333.1	1332.8	1332.6	1333.0
7.5°	1334.4	1334.8	1334.2	1333.5	1333.2	1333.0	1332.8	1332.6	1332.1	1331.6	1331.9
10°	1334.8	1336.7	1335.3	1334.0	1333.5	1333.0	1332.1	1331.2	1331.0	1330.8	1330.3
12.5°	1335.8	1337.6	1336.0	1334.4	1333.8	1333.0	1332.2	1331.2	1330.6	1329.8	1329.2
15°	1338.5	1339.9	1338.5	1337.2	1335.8	1334.4	1333.5	1332.6	1331.2	1329.8	1329.2
17.5°	1340.4	1342.6	1341.0	1339.4	1337.8	1336.2	1335.3	1334.4	1333.5	1332.6	1331.4
20°	1343.6	1345.8	1344.4	1343.1	1342.2	1341.2	1340.6	1339.8	1339.2	1338.5	1336.9
22.5°	1349.5	1351.3	1350.8	1350.4	1350.6	1350.8	1351.1	1351.3	1350.8	1350.4	1348.8
25°	1361.8	1361.8	1362.7	1363.6	1365.0	1366.4	1367.5	1368.6	1369.4	1370.0	1368.0
27.5°	1383.3	1385.1	1385.8	1386.4	1388.8	1391.1	1393.6	1396.0	1397.4	1398.8	1396.8
30°	1411.1	1411.1	1412.7	1414.4	1418.2	1422.1	1425.3	1428.4	1431.0	1433.5	1431.9
32.5°	1446.8	1449.0	1451.3	1453.6	1458.4	1463.2	1468.6	1474.2	1477.4	1480.6	1478.1
35°	1501.1	1503.8	1506.1	1508.4	1513.4	1518.4	1524.6	1530.8	1533.5	1536.3	1534.7
37.5°	1577.8	1577.9	1581.0	1584.2	1587.4	1590.6	1598.8	1607.0	1610.5	1613.9	1611.2
40°	1681.5	1682.0	1682.6	1683.3	1686.3	1689.2	1699.3	1709.4	1715.3	1721.2	1715.5
42.5°	1800.6	1805.6	1805.4	1805.2	1807.3	1809.4	1818.9	1828.5	1837.0	1845.4	1842.0
45°	1941.3	1940.4	1938.6	1936.8	1942.9	1949.0	1962.8	1976.4	1984.0	1991.6	1984.5
47.5°	2083.4	2082.0	2079.5	2077.0	2083.1	2089.3	2109.8	2130.4	2141.1	2151.9	2140.5
50°	2225.0	2230.4	2227.2	2224.0	2233.1	2242.2	2268.3	2294.4	2310.1	2325.9	2312.6
52.5°	2381.6	2385.7	2382.0	2378.4	2390.9	2403.4	2434.3	2465.2	2486.2	2507.2	2489.3
55°	2543.6	2538.6	2540.7	2542.8	2554.6	2566.5	2604.4	2642.3	2667.4	2692.6	2672.4
57.5°	2695.3	2697.1	2695.0	2693.0	2711.7	2730.4	2778.2	2825.9	2857.4	2888.9	2863.8
60°	2850.6	2851.0	2846.5	2841.9	2862.2	2882.5	2951.0	3019.6	3060.4	3101.3	3066.8
62.5°	3024.1	3023.6	3015.7	3007.7	3031.6	3055.6	3140.6	3225.5	3281.7	3337.8	3295.8
65°	3237.0	3231.4	3226.9	3222.3	3249.9	3277.6	3383.0	3488.6	3564.4	3640.2	3586.0
67.5°	3550.6	3546.6	3537.0	3527.4	3558.2	3589.0	3724.2	3859.4	3957.3	4055.2	3983.8
70°	3895.9	3888.1	3894.7	3901.4	3972.6	4043.8	4225.2	4406.5	4522.5	4638.5	4518.4
72°	3725.6	3728.8	3750.9	3773.0	3898.0	4022.9	4280.4	4538.0	4705.8	4873.6	4688.0
72.5°	3666.2	3669.0	3694.0	3719.2	3838.4	3957.6	4223.1	4488.6	4662.4	4836.2	4645.3
75°	3414.1	3421.4	3450.4	3479.4	3600.2	3721.0	3988.8	4256.7	4423.2	4589.6	4398.5
77.5°	3002.6	3025.4	3054.9	3084.4	3228.2	3372.1	3674.9	3977.6	4161.4	4345.2	4128.4
80°	2291.6	2283.4	2334.0	2384.8	2522.2	2659.7	2894.0	3128.2	3339.9	3551.6	3307.7
82.5°	890.6	910.1	1015.2	1120.2	1264.3	1408.4	1618.2	1828.0	2018.7	2209.4	2006.4
85°	91.8	104.6	142.3	180.0	258.5	337.0	464.9	592.8	718.1	843.4	707.4
87.5°	37.0	40.7	52.3	63.9	66.9	69.8	84.5	99.1	98.4	97.8	96.4
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°	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5
2.5°	1333.0	1333.5	1333.9	1334.0	1334.0	1334.6	1335.3	1334.4
5°	1333.5	1333.7	1333.9	1334.0	1334.0	1334.6	1335.3	1334.4
7.5°	1332.2	1332.1	1332.1	1332.8	1333.5	1333.7	1334.0	1333.5
10°	1329.8	1330.1	1330.3	1331.0	1331.6	1332.4	1333.0	1333.5
12.5°	1328.5	1328.7	1328.9	1329.6	1330.3	1331.0	1331.7	1332.6
15°	1328.4	1328.7	1328.9	1329.4	1329.8	1330.8	1331.7	1332.6
17.5°	1330.3	1329.8	1329.4	1329.8	1330.3	1331.4	1332.6	1333.5
20°	1335.3	1334.6	1334.0	1334.0	1334.0	1335.1	1336.2	1336.2
22.5°	1347.2	1344.9	1342.6	1342.2	1341.7	1341.9	1342.2	1342.6
25°	1365.9	1362.3	1358.6	1357.5	1356.3	1355.8	1355.4	1356.3
27.5°	1394.7	1390.6	1386.5	1384.0	1381.4	1380.1	1378.7	1379.2
30°	1430.3	1425.5	1420.8	1416.6	1412.5	1410.7	1408.8	1409.3
32.5°	1475.6	1469.8	1464.1	1458.6	1453.2	1450.6	1448.1	1448.6
35°	1533.0	1526.4	1519.8	1515.2	1510.7	1506.8	1502.9	1506.1
37.5°	1608.4	1602.2	1596.1	1593.1	1590.1	1586.7	1583.3	1583.7
40°	1709.8	1703.4	1697.0	1694.5	1692.0	1687.7	1683.4	1684.2
42.5°	1838.6	1829.0	1819.4	1814.8	1810.2	1808.2	1806.2	1807.5
45°	1977.4	1967.8	1958.2	1954.4	1950.4	1945.0	1939.5	1944.5
47.5°	2129.0	2116.9	2104.8	2098.0	2091.1	2093.0	2094.8	2090.7
50°	2299.4	2279.0	2258.7	2250.7	2242.7	2242.7	2242.8	2242.3
52.5°	2471.5	2443.4	2415.4	2408.5	2401.6	2400.1	2398.5	2396.6
55°	2652.4	2617.9	2583.4	2570.6	2557.8	2559.7	2561.5	2566.5
57.5°	2838.7	2793.2	2747.8	2733.2	2718.6	2719.8	2720.9	2729.1
60°	3032.3	2973.6	2915.0	2898.7	2882.5	2886.8	2891.2	2896.2
62.5°	3253.8	3182.8	3111.8	3090.1	3068.4	3073.9	3079.4	3092.6
65°	3532.0	3443.3	3354.7	3332.1	3309.5	3312.0	3314.6	3337.4
67.5°	3912.3	3794.3	3676.2	3655.4	3634.6	3638.3	3642.0	3679.0
70°	4398.2	4223.4	4048.4	3962.4	3876.2	3862.8	3849.4	3869.0
72°	4502.4	4255.3	4008.2	3881.3	3754.3	3734.4	3714.6	3716.4
72.5°	4454.4	4204.6	3954.8	3831.5	3708.2	3692.0	3675.8	3672.6
75°	4207.4	3963.0	3718.7	3591.3	3463.9	3433.0	3402.2	3402.2
77.5°	3911.4	3603.4	3295.4	3157.9	3020.4	2988.2	2956.0	2930.9
80°	3063.8	2787.8	2511.7	2372.2	2232.7	2181.1	2129.5	2098.9
82.5°	1803.4	1549.5	1295.6	1118.4	941.2	888.0	834.8	760.8
85°	571.3	439.6	307.8	240.2	172.6	139.5	106.4	93.2
87.5°	95.0	77.2	59.4	57.3	55.3	43.4	31.6	26.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)