

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: P144274

Luminaire Tested: **LDRL-5XQ-F06-E-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P144274
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-F06-E-7030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13988.6 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U0 - G3

Input Watts (W): 156.5
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

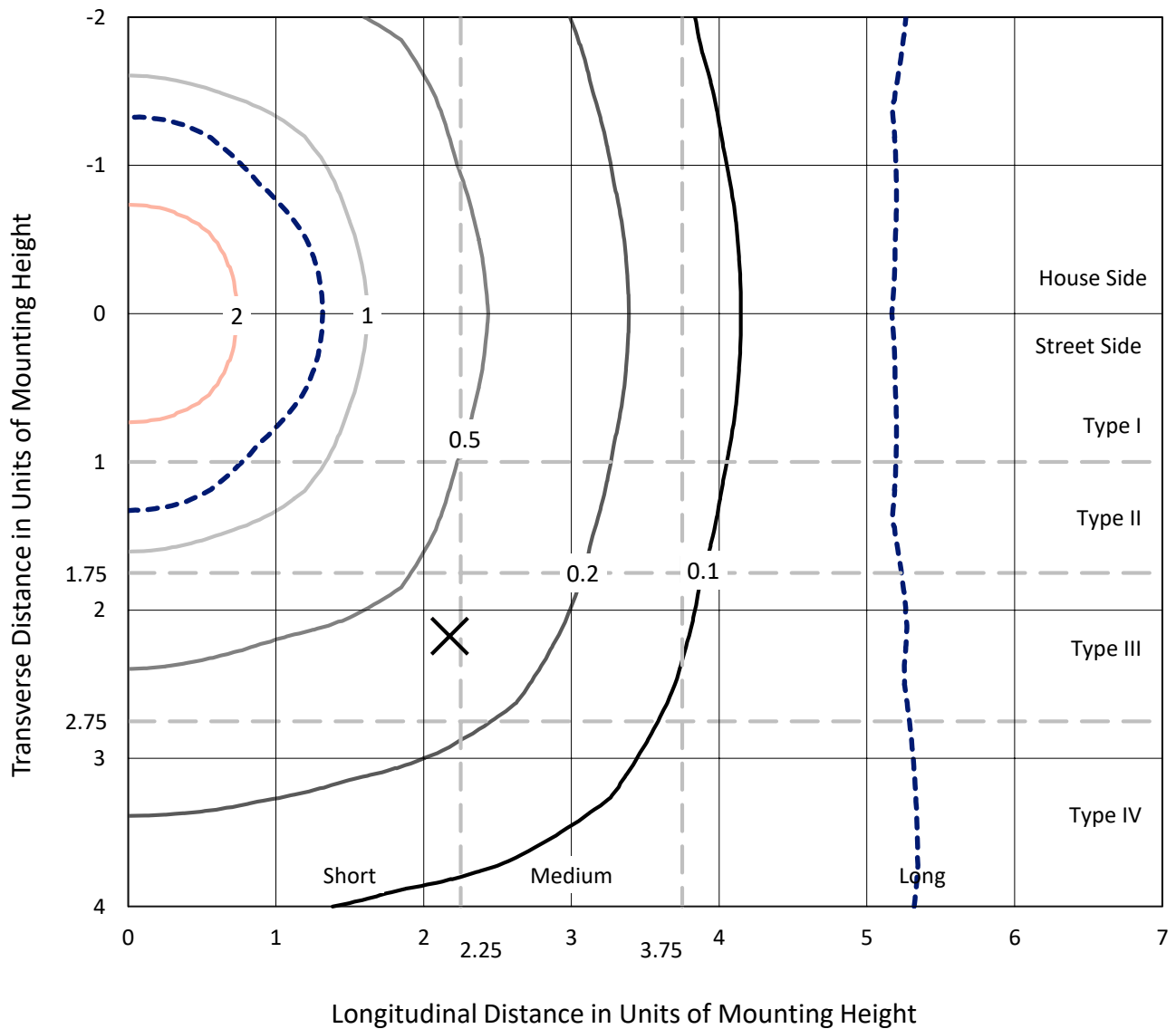


REPORT NUMBER: P144274

CATALOG NUMBER: LDRL-5XQ-F06-E-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

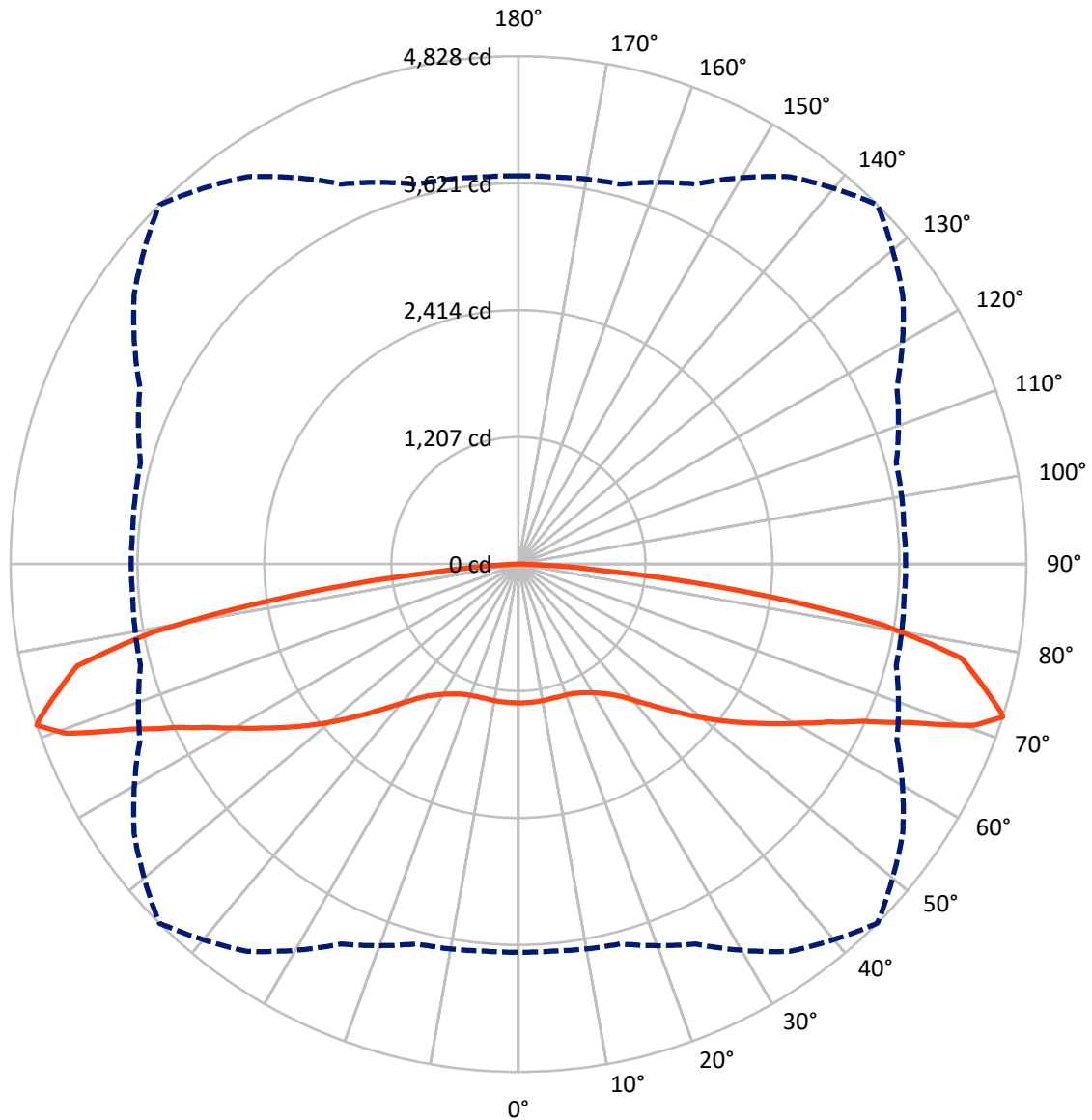


Based on 20 foot mounting height. Maximum calculated value = 3.3 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P144274

CATALOG NUMBER: LDRL-5XQ-F06-E-7030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P144274

CATALOG NUMBER: LDRL-5XQ-F06-E-7030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6994.3	0.0	6994.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6994.3	0.0	6994.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	13988.6	0.0	13988.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.1	0.9
10°-20°	374.5	2.7
20°-30°	629.1	4.5
30°-40°	957.5	6.8
40°-50°	1513.7	10.8
50°-60°	2312.0	16.5
60°-70°	3387.1	24.2
70°-80°	3848.0	27.5
80°-90°	840.5	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°	13988.6	100.0
0°-180°	13988.6	100.0



REPORT NUMBER: P144274

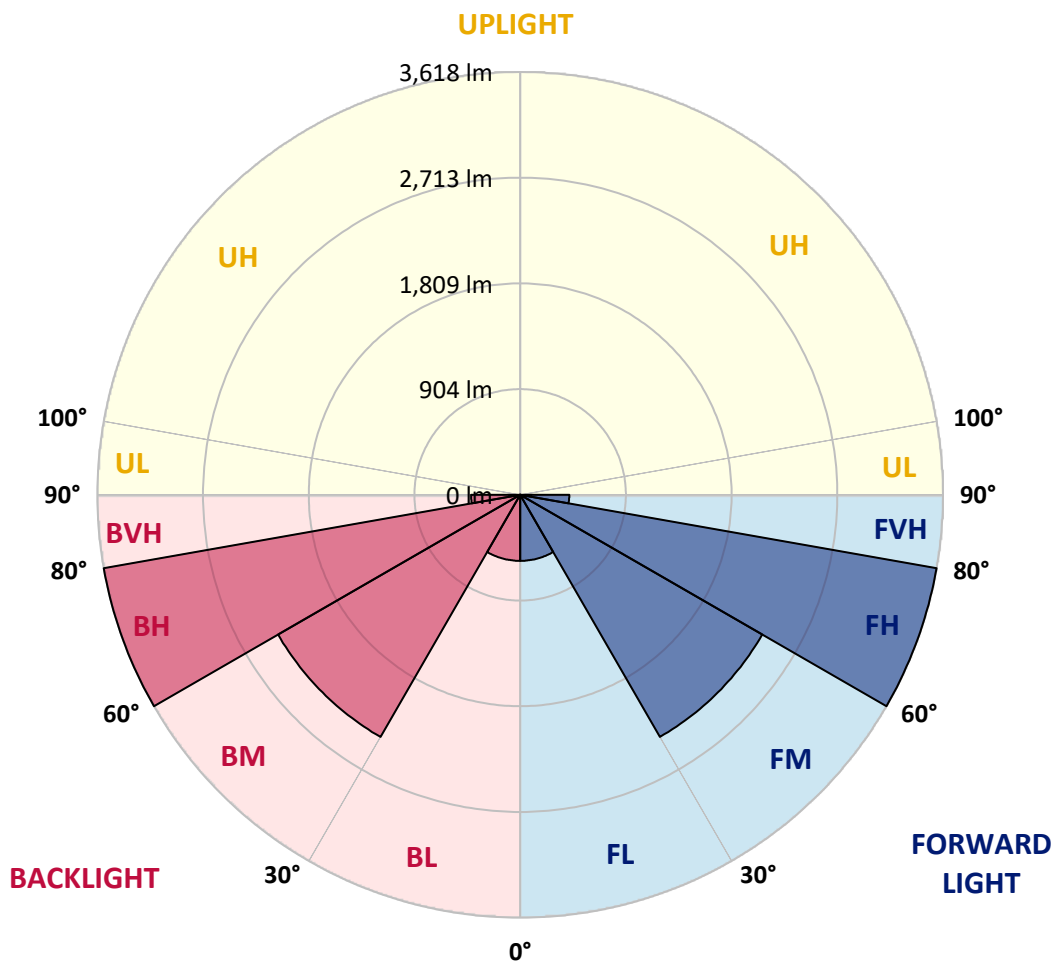
CATALOG NUMBER: LDRL-5XQ-F06-E-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	564.9	4.0			
FM	(30°-60°)	2391.6	17.1			
FH	(60°-80°)	3617.5	25.9			G2/5000
FVH	(80°-90°)	420.3	3.0			G3/500
BL	(0°-30°)	564.9	4.0	B2/1000		
BM	(30°-60°)	2391.6	17.1	B2/2500		
BH	(60°-80°)	3617.5	25.9	B4/5000		G2/5000
BVH	(80°-90°)	420.3	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





REPORT NUMBER: P144274

CATALOG NUMBER: LDRL-5XQ-F06-E-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1321.0	1321.0	1321.0	1321.0	1321.0	1321.0	1321.0	1321.0	1321.0	1321.0	1321.0
2.5°	1323.8	1323.3	1322.4	1321.4	1321.0	1320.6	1320.6	1320.6	1320.3	1320.1	1320.3
5°	1323.8	1323.3	1322.6	1321.9	1321.2	1320.6	1320.6	1320.6	1320.3	1320.1	1320.6
7.5°	1321.9	1322.4	1321.7	1321.0	1320.8	1320.5	1320.3	1320.1	1319.6	1319.2	1319.4
10°	1322.4	1324.2	1322.8	1321.4	1321.0	1320.6	1319.6	1318.7	1318.5	1318.2	1317.8
12.5°	1323.2	1325.1	1323.5	1321.9	1321.2	1320.6	1319.6	1318.8	1318.1	1317.4	1316.7
15°	1325.9	1327.3	1326.0	1324.6	1323.2	1321.9	1321.0	1320.1	1318.8	1317.4	1316.7
17.5°	1327.8	1330.0	1328.4	1326.8	1325.3	1323.7	1322.8	1321.9	1321.0	1320.1	1319.0
20°	1330.9	1333.2	1331.9	1330.5	1329.6	1328.6	1328.0	1327.3	1326.6	1326.0	1324.4
22.5°	1336.8	1338.6	1338.2	1337.8	1338.0	1338.2	1338.4	1338.6	1338.2	1337.8	1336.2
25°	1349.1	1349.0	1350.0	1350.8	1352.2	1353.6	1354.7	1355.8	1356.5	1357.2	1355.2
27.5°	1370.3	1372.1	1372.8	1373.4	1375.7	1378.0	1380.5	1383.0	1384.3	1385.6	1383.6
30°	1397.9	1397.9	1399.5	1401.1	1404.9	1408.8	1411.9	1415.1	1417.6	1420.0	1418.5
32.5°	1433.2	1435.4	1437.7	1440.0	1444.7	1449.4	1454.9	1460.4	1463.5	1466.6	1464.1
35°	1487.0	1489.8	1492.0	1494.2	1499.2	1504.2	1510.4	1516.4	1519.2	1521.8	1520.3
37.5°	1563.0	1563.0	1566.2	1569.4	1572.6	1575.7	1583.8	1592.0	1595.4	1598.8	1596.1
40°	1665.7	1666.2	1666.8	1667.5	1670.4	1673.4	1683.4	1693.3	1699.2	1705.0	1699.4
42.5°	1783.8	1788.8	1788.5	1788.3	1790.4	1792.4	1801.9	1811.4	1819.8	1828.1	1824.7
45°	1923.2	1922.2	1920.4	1918.6	1924.7	1930.8	1944.4	1958.0	1965.4	1972.9	1965.9
47.5°	2063.8	2062.4	2060.0	2057.5	2063.6	2069.7	2090.0	2110.4	2121.0	2131.7	2120.4
50°	2204.1	2209.5	2206.4	2203.2	2212.2	2221.2	2247.0	2272.9	2288.4	2304.0	2290.9
52.5°	2359.2	2363.3	2359.7	2356.0	2368.5	2381.0	2411.5	2442.0	2462.9	2483.7	2466.0
55°	2519.8	2514.8	2516.9	2519.0	2530.7	2542.4	2580.0	2617.6	2642.4	2667.3	2647.4
57.5°	2670.0	2671.8	2669.8	2667.8	2686.3	2704.9	2752.2	2799.4	2830.6	2861.9	2837.0
60°	2823.9	2824.3	2819.8	2815.2	2835.4	2855.5	2923.4	2991.2	3031.7	3072.2	3038.1
62.5°	2995.8	2995.4	2987.4	2979.5	3003.2	3027.0	3111.1	3195.3	3250.9	3306.6	3265.0
65°	3206.6	3201.2	3196.6	3192.1	3219.5	3246.8	3351.3	3455.8	3531.0	3606.0	3552.4
67.5°	3517.4	3513.3	3503.8	3494.3	3524.8	3555.4	3689.3	3823.2	3920.2	4017.3	3946.5
70°	3859.4	3851.7	3858.2	3864.8	3935.4	4006.0	4185.6	4365.2	4480.1	4595.0	4476.0
72°	3690.6	3693.8	3715.8	3737.7	3861.4	3985.2	4240.3	4495.5	4661.7	4828.0	4644.0
72.5°	3631.8	3634.6	3659.4	3684.3	3802.4	3920.5	4183.6	4446.6	4618.8	4790.9	4601.8
75°	3382.1	3389.4	3418.1	3446.8	3566.4	3686.1	3951.4	4216.8	4381.7	4546.6	4357.2
77.5°	2974.5	2997.2	3026.3	3055.5	3198.0	3340.4	3640.4	3940.4	4122.5	4304.5	4089.6
80°	2270.1	2262.0	2312.2	2362.4	2498.6	2634.8	2866.8	3098.9	3308.6	3518.2	3276.7
82.5°	882.2	901.6	1005.7	1109.8	1252.4	1395.2	1603.0	1811.0	1999.8	2188.7	1987.6
85°	91.0	103.6	140.9	178.2	256.0	333.8	460.5	587.2	711.4	835.6	700.8
87.5°	36.6	40.2	51.8	63.3	66.3	69.2	83.7	98.2	97.5	96.8	95.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P144274

CATALOG NUMBER: LDRL-5XQ-F06-E-7030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1321.0	1321.0	1321.0	1321.0	1321.0	1321.0	1321.0	1321.0
2.5°	1320.6	1321.0	1321.4	1321.4	1321.4	1322.1	1322.8	1321.9
5°	1321.0	1321.2	1321.4	1321.4	1321.4	1322.1	1322.8	1321.9
7.5°	1319.6	1319.6	1319.6	1320.3	1321.0	1321.2	1321.4	1321.0
10°	1317.4	1317.6	1317.8	1318.5	1319.2	1319.9	1320.6	1321.0
12.5°	1316.0	1316.2	1316.4	1317.2	1317.8	1318.5	1319.2	1320.1
15°	1316.0	1316.2	1316.4	1316.9	1317.4	1318.3	1319.2	1320.1
17.5°	1317.8	1317.4	1316.9	1317.4	1317.8	1319.0	1320.1	1321.0
20°	1322.8	1322.1	1321.4	1321.4	1321.4	1322.6	1323.7	1323.7
22.5°	1334.6	1332.3	1330.1	1329.6	1329.2	1329.4	1329.6	1330.0
25°	1353.2	1349.5	1345.9	1344.8	1343.6	1343.2	1342.7	1343.6
27.5°	1381.6	1377.6	1373.5	1371.0	1368.5	1367.1	1365.8	1366.2
30°	1416.9	1412.2	1407.4	1403.4	1399.3	1397.5	1395.6	1396.1
32.5°	1461.6	1456.0	1450.4	1445.0	1439.6	1437.1	1434.6	1435.0
35°	1518.7	1512.1	1505.6	1501.1	1496.6	1492.7	1488.8	1492.0
37.5°	1593.4	1587.2	1581.1	1578.2	1575.2	1571.8	1568.4	1568.9
40°	1693.8	1687.4	1681.1	1678.6	1676.2	1671.8	1667.6	1668.4
42.5°	1821.4	1811.8	1802.4	1797.8	1793.3	1791.3	1789.2	1790.6
45°	1958.8	1949.4	1939.8	1936.0	1932.2	1926.7	1921.3	1926.3
47.5°	2109.0	2097.1	2085.1	2078.3	2071.5	2073.3	2075.2	2071.1
50°	2277.8	2257.7	2237.6	2229.6	2221.7	2221.7	2221.7	2221.3
52.5°	2448.4	2420.5	2392.7	2385.9	2379.1	2377.6	2376.0	2374.2
55°	2627.5	2593.4	2559.2	2546.6	2533.9	2535.7	2537.5	2542.5
57.5°	2812.1	2767.1	2722.1	2707.6	2693.1	2694.2	2695.4	2703.5
60°	3004.0	2945.8	2887.6	2871.6	2855.6	2859.8	2864.1	2869.1
62.5°	3223.4	3153.0	3082.6	3061.2	3039.6	3045.1	3050.5	3063.6
65°	3498.8	3411.0	3323.3	3300.9	3278.5	3281.0	3283.4	3306.1
67.5°	3875.7	3758.7	3641.8	3621.2	3600.6	3604.2	3607.8	3644.5
70°	4357.0	4183.8	4010.5	3925.2	3839.9	3826.6	3813.2	3832.7
72°	4460.2	4215.4	3970.7	3844.9	3719.2	3699.5	3679.8	3681.6
72.5°	4412.6	4165.2	3917.8	3795.6	3673.5	3657.4	3641.4	3638.2
75°	4167.9	3925.9	3683.8	3557.6	3431.4	3400.9	3370.4	3370.4
77.5°	3874.8	3569.6	3264.5	3128.3	2992.1	2960.3	2928.4	2903.5
80°	3035.1	2761.6	2488.2	2350.0	2211.8	2160.6	2109.5	2079.2
82.5°	1786.5	1535.0	1283.4	1107.9	932.4	879.7	827.0	753.7
85°	566.0	435.4	305.0	238.0	171.0	138.2	105.4	92.3
87.5°	94.1	76.4	58.8	56.8	54.8	43.0	31.2	26.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)