

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: P144264

Luminaire Tested: **LDRL-5XQ-F05-E-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P144264  
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-F05-E-7030  
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE  
Light Source: (35) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11657.1 lumens  
Efficiency: N/A  
Efficacy: 87.5 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): 133.3  
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

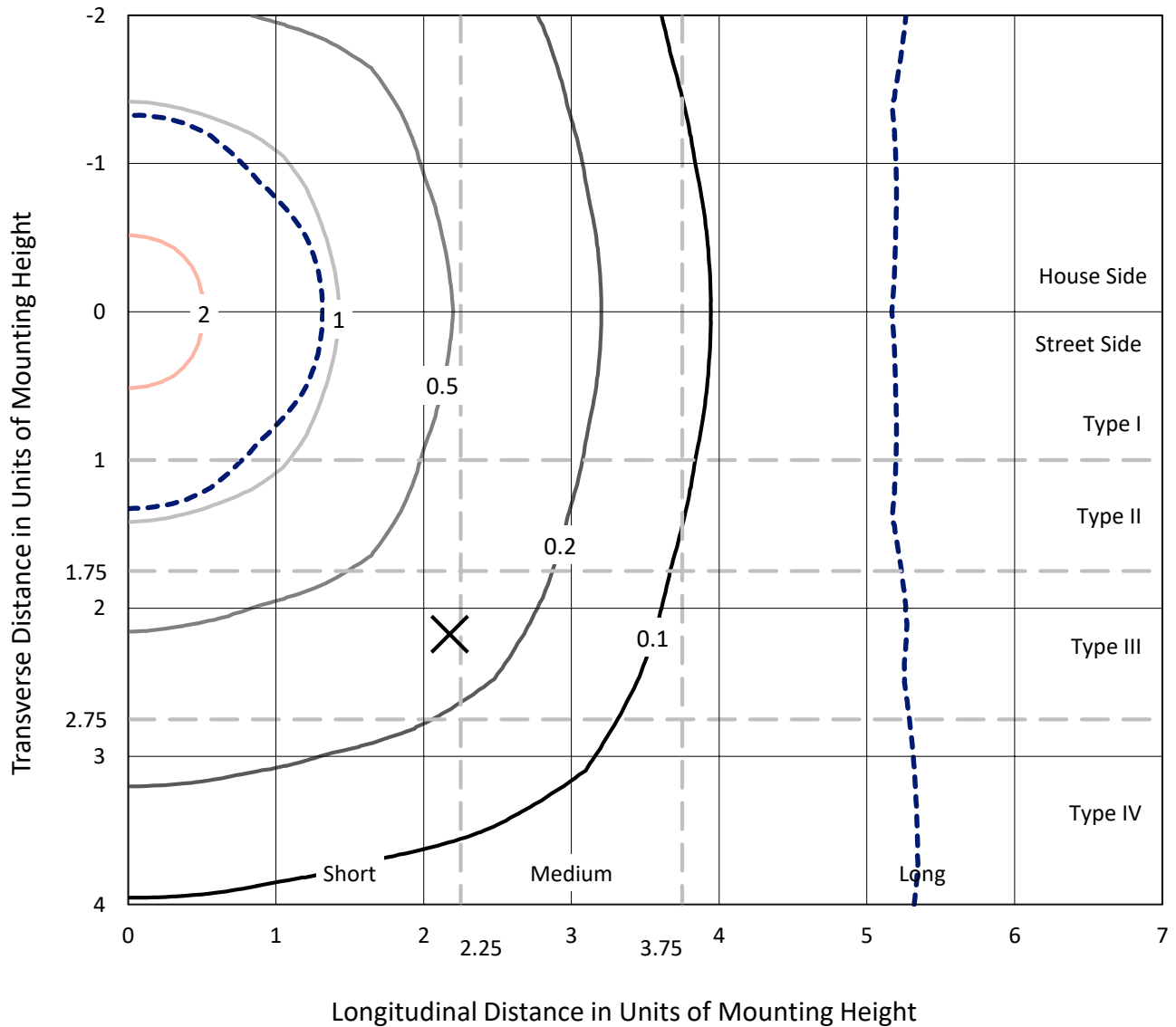


REPORT NUMBER: P144264

CATALOG NUMBER: LDRL-5XQ-F05-E-7030

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

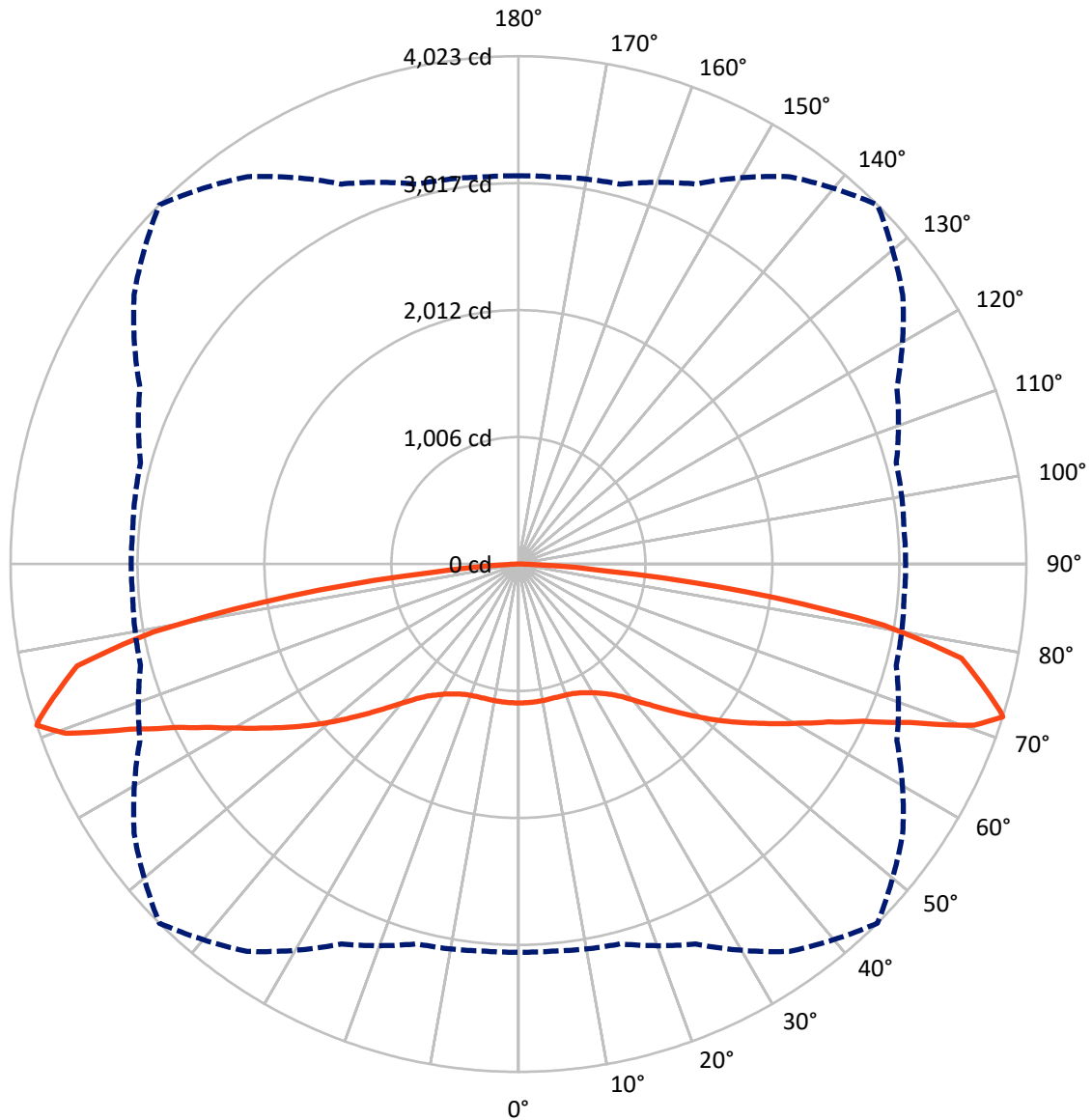


Based on 20 foot mounting height. Maximum calculated value = 2.8 fc  
 Type V - Short - Non-Cutoff

REPORT NUMBER: P144264

CATALOG NUMBER: LDRL-5XQ-F05-E-7030

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P144264

CATALOG NUMBER: LDRL-5XQ-F05-E-7030

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5828.6	0.0	5828.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5828.6	0.0	5828.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	11657.1	0.0	11657.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.1	0.9
10°-20°	312.1	2.7
20°-30°	524.3	4.5
30°-40°	797.9	6.8
40°-50°	1261.4	10.8
50°-60°	1926.6	16.5
60°-70°	2822.6	24.2
70°-80°	3206.7	27.5
80°-90°	700.4	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°	11657.1	100.0
0°-180°	11657.1	100.0



REPORT NUMBER: P144264

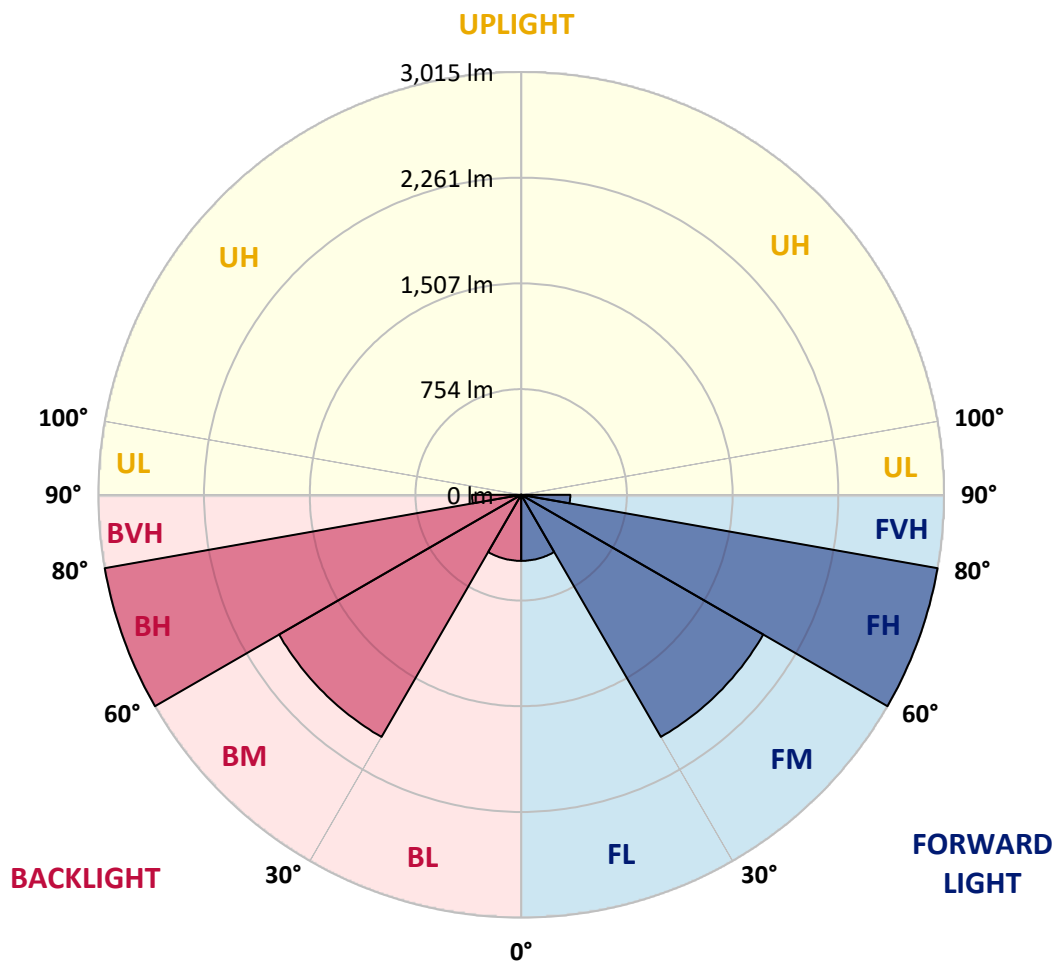
CATALOG NUMBER: LDRL-5XQ-F05-E-7030

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	470.7	4.0			
FM (30°-60°)	1993.0	17.1			
FH (60°-80°)	3014.6	25.9			G2/5000
FVH (80°-90°)	350.2	3.0			G3/500
BL (0°-30°)	470.7	4.0	B1/500		
BM (30°-60°)	1993.0	17.1	B2/2500		
BH (60°-80°)	3014.6	25.9	B4/5000		G2/5000
BVH (80°-90°)	350.2	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





REPORT NUMBER: P144264

CATALOG NUMBER: LDRL-5XQ-F05-E-7030

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1100.8	1100.8	1100.8	1100.8	1100.8	1100.8	1100.8	1100.8	1100.8	1100.8	1100.8
2.5°	1103.1	1102.8	1102.0	1101.2	1100.9	1100.5	1100.5	1100.5	1100.3	1100.1	1100.3
5°	1103.1	1102.7	1102.2	1101.6	1101.0	1100.4	1100.4	1100.4	1100.3	1100.1	1100.5
7.5°	1101.6	1101.9	1101.4	1100.8	1100.6	1100.4	1100.3	1100.1	1099.7	1099.3	1099.5
10°	1102.0	1103.5	1102.4	1101.2	1100.8	1100.4	1099.7	1099.0	1098.8	1098.6	1098.2
12.5°	1102.8	1104.2	1102.9	1101.6	1101.0	1100.4	1099.7	1098.9	1098.4	1097.8	1097.3
15°	1105.0	1106.1	1105.0	1103.8	1102.7	1101.6	1100.8	1100.1	1099.0	1097.8	1097.3
17.5°	1106.5	1108.4	1107.1	1105.7	1104.4	1103.1	1102.4	1101.6	1100.8	1100.0	1099.1
20°	1109.2	1111.0	1109.9	1108.8	1108.0	1107.2	1106.6	1106.1	1105.5	1105.0	1103.6
22.5°	1114.0	1115.5	1115.1	1114.8	1115.0	1115.2	1115.4	1115.6	1115.1	1114.8	1113.4
25°	1124.2	1124.2	1124.9	1125.7	1126.8	1127.9	1128.9	1129.9	1130.4	1131.0	1129.3
27.5°	1142.0	1143.4	1144.0	1144.6	1146.5	1148.4	1150.4	1152.5	1153.6	1154.8	1153.1
30°	1164.9	1164.9	1166.2	1167.6	1170.8	1173.9	1176.6	1179.2	1181.3	1183.4	1182.1
32.5°	1194.4	1196.2	1198.1	1200.0	1204.0	1207.9	1212.4	1216.9	1219.6	1222.2	1220.2
35°	1239.2	1241.4	1243.4	1245.2	1249.4	1253.5	1258.6	1263.7	1265.9	1268.2	1266.9
37.5°	1302.6	1302.5	1305.2	1307.8	1310.4	1313.1	1319.9	1326.6	1329.5	1332.3	1330.1
40°	1388.1	1388.5	1389.1	1389.6	1392.0	1394.5	1402.8	1411.1	1416.0	1420.9	1416.2
42.5°	1486.5	1490.6	1490.4	1490.2	1492.0	1493.7	1501.6	1509.5	1516.5	1523.4	1520.6
45°	1602.6	1601.8	1600.4	1598.9	1603.9	1609.1	1620.4	1631.6	1637.9	1644.1	1638.2
47.5°	1719.8	1718.8	1716.6	1714.6	1719.6	1724.8	1741.7	1758.7	1767.6	1776.4	1767.0
50°	1836.7	1841.2	1838.6	1836.0	1843.5	1851.0	1872.5	1894.0	1907.0	1920.0	1909.1
52.5°	1966.0	1969.4	1966.4	1963.4	1973.8	1984.2	2009.6	2035.0	2052.4	2069.7	2055.0
55°	2099.9	2095.8	2097.4	2099.1	2108.9	2118.8	2150.0	2181.4	2202.0	2222.8	2206.2
57.5°	2225.0	2226.6	2224.8	2223.1	2238.6	2254.0	2293.4	2332.8	2358.9	2384.9	2364.2
60°	2353.2	2353.6	2349.8	2346.0	2362.8	2379.6	2436.2	2492.7	2526.4	2560.2	2531.7
62.5°	2496.5	2496.1	2489.5	2482.9	2502.7	2522.5	2592.6	2662.7	2709.1	2755.5	2720.8
65°	2672.2	2667.6	2663.8	2660.1	2682.9	2705.7	2792.8	2879.9	2942.5	3005.0	2960.4
67.5°	2931.2	2927.8	2919.8	2911.9	2937.4	2962.8	3074.4	3186.0	3266.9	3347.8	3288.8
70°	3216.1	3209.8	3215.2	3220.7	3279.5	3338.3	3488.0	3637.6	3733.4	3829.2	3730.0
72°	3075.6	3078.2	3096.5	3114.8	3217.8	3321.0	3533.6	3746.2	3884.8	4023.3	3870.1
72.5°	3026.5	3028.8	3049.6	3070.3	3168.7	3267.0	3486.3	3705.5	3849.0	3992.4	3834.8
75°	2818.4	2824.4	2848.4	2872.4	2972.0	3071.8	3292.9	3514.0	3651.4	3788.8	3631.0
77.5°	2478.8	2497.6	2521.9	2546.2	2665.0	2783.8	3033.7	3283.6	3435.4	3587.2	3408.1
80°	1891.8	1885.0	1926.8	1968.6	2082.1	2195.6	2389.0	2582.4	2757.2	2931.9	2730.6
82.5°	735.2	751.4	838.0	924.8	1043.7	1162.6	1335.9	1509.2	1666.5	1823.9	1656.3
85°	75.8	86.4	117.4	148.6	213.4	278.2	383.8	489.3	592.8	696.3	584.0
87.5°	30.5	33.6	43.2	52.8	55.2	57.6	69.7	81.8	81.2	80.7	79.6
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: P144264

CATALOG NUMBER: LDRL-5XQ-F05-E-7030

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1100.8	1100.8	1100.8	1100.8	1100.8	1100.8	1100.8	1100.8
2.5°	1100.4	1100.8	1101.2	1101.2	1101.2	1101.8	1102.3	1101.6
5°	1100.8	1101.0	1101.2	1101.2	1101.2	1101.8	1102.3	1101.6
7.5°	1099.7	1099.7	1099.7	1100.3	1100.8	1101.0	1101.2	1100.8
10°	1097.8	1098.0	1098.2	1098.8	1099.3	1099.9	1100.4	1100.8
12.5°	1096.7	1096.9	1097.0	1097.6	1098.2	1098.8	1099.3	1100.1
15°	1096.7	1096.9	1097.0	1097.4	1097.8	1098.6	1099.4	1100.1
17.5°	1098.2	1097.8	1097.4	1097.8	1098.2	1099.1	1100.0	1100.8
20°	1102.4	1101.8	1101.2	1101.2	1101.2	1102.1	1103.0	1103.1
22.5°	1112.2	1110.2	1108.4	1108.0	1107.6	1107.8	1108.0	1108.4
25°	1127.6	1124.6	1121.6	1120.6	1119.7	1119.3	1118.9	1119.7
27.5°	1151.4	1148.0	1144.6	1142.5	1140.4	1139.3	1138.2	1138.5
30°	1180.8	1176.8	1172.8	1169.4	1166.1	1164.5	1163.0	1163.4
32.5°	1218.1	1213.4	1208.6	1204.1	1199.6	1197.6	1195.4	1195.8
35°	1265.6	1260.1	1254.6	1250.9	1247.1	1243.9	1240.7	1243.3
37.5°	1327.8	1322.7	1317.6	1315.2	1312.7	1309.9	1307.1	1307.4
40°	1411.4	1406.2	1400.9	1398.8	1396.8	1393.2	1389.6	1390.4
42.5°	1517.8	1509.9	1501.9	1498.2	1494.4	1492.7	1491.0	1492.2
45°	1632.4	1624.4	1616.6	1613.4	1610.2	1605.6	1601.1	1605.3
47.5°	1757.6	1747.6	1737.6	1731.9	1726.2	1727.8	1729.3	1725.9
50°	1898.2	1881.4	1864.6	1858.0	1851.4	1851.4	1851.4	1851.1
52.5°	2040.3	2017.1	1994.0	1988.3	1982.6	1981.3	1980.0	1978.5
55°	2189.6	2161.2	2132.7	2122.1	2111.6	2113.0	2114.6	2118.7
57.5°	2343.4	2305.9	2268.4	2256.4	2244.3	2245.2	2246.2	2252.9
60°	2503.2	2454.8	2406.4	2393.0	2379.6	2383.2	2386.8	2390.9
62.5°	2686.1	2627.5	2568.9	2550.9	2533.0	2537.5	2542.0	2553.0
65°	2915.7	2842.6	2769.4	2750.8	2732.1	2734.2	2736.2	2755.1
67.5°	3229.8	3132.3	3034.8	3017.6	3000.5	3003.5	3006.6	3037.1
70°	3630.8	3486.4	3342.0	3271.0	3200.0	3188.8	3177.7	3193.9
72°	3716.8	3512.9	3308.9	3204.1	3099.3	3082.9	3066.5	3068.0
72.5°	3677.2	3471.0	3264.8	3163.0	3061.2	3047.8	3034.4	3031.8
75°	3473.3	3271.6	3069.9	2964.7	2859.5	2834.0	2808.6	2808.6
77.5°	3229.0	2974.7	2720.4	2606.9	2493.4	2466.9	2440.3	2419.6
80°	2529.2	2301.4	2073.5	1958.3	1843.2	1800.5	1758.0	1732.7
82.5°	1488.8	1279.2	1069.6	923.3	777.0	733.1	689.2	628.1
85°	471.6	362.9	254.1	198.3	142.5	115.2	87.8	76.9
87.5°	78.4	63.7	49.0	47.3	45.6	35.8	26.0	21.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)