

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: P144273

Luminaire Tested: **LDRL-5XQ-F06-E-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P144273
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-8030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12926.3 lumens
Efficiency: N/A
Efficacy: 82.6 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

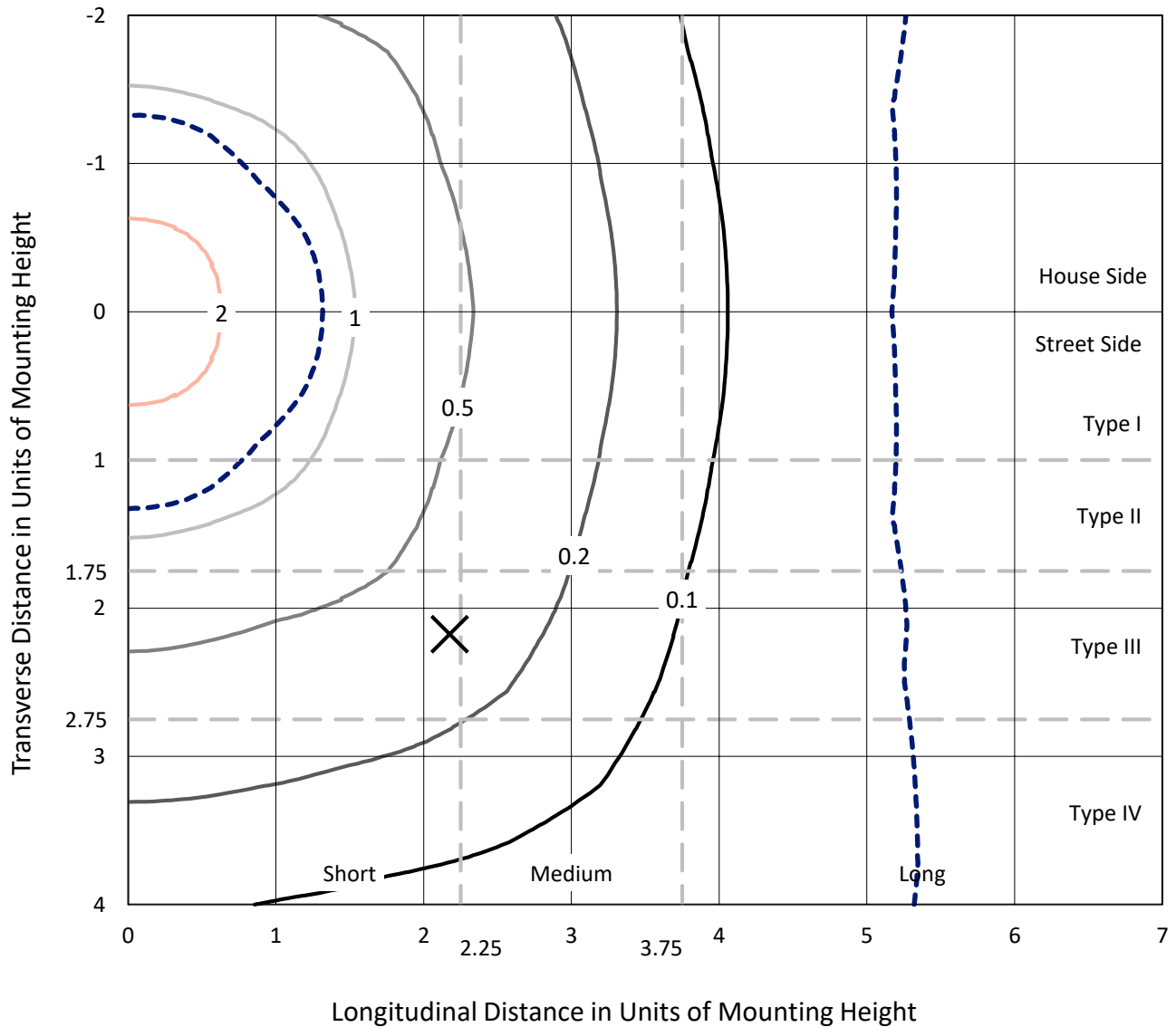


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

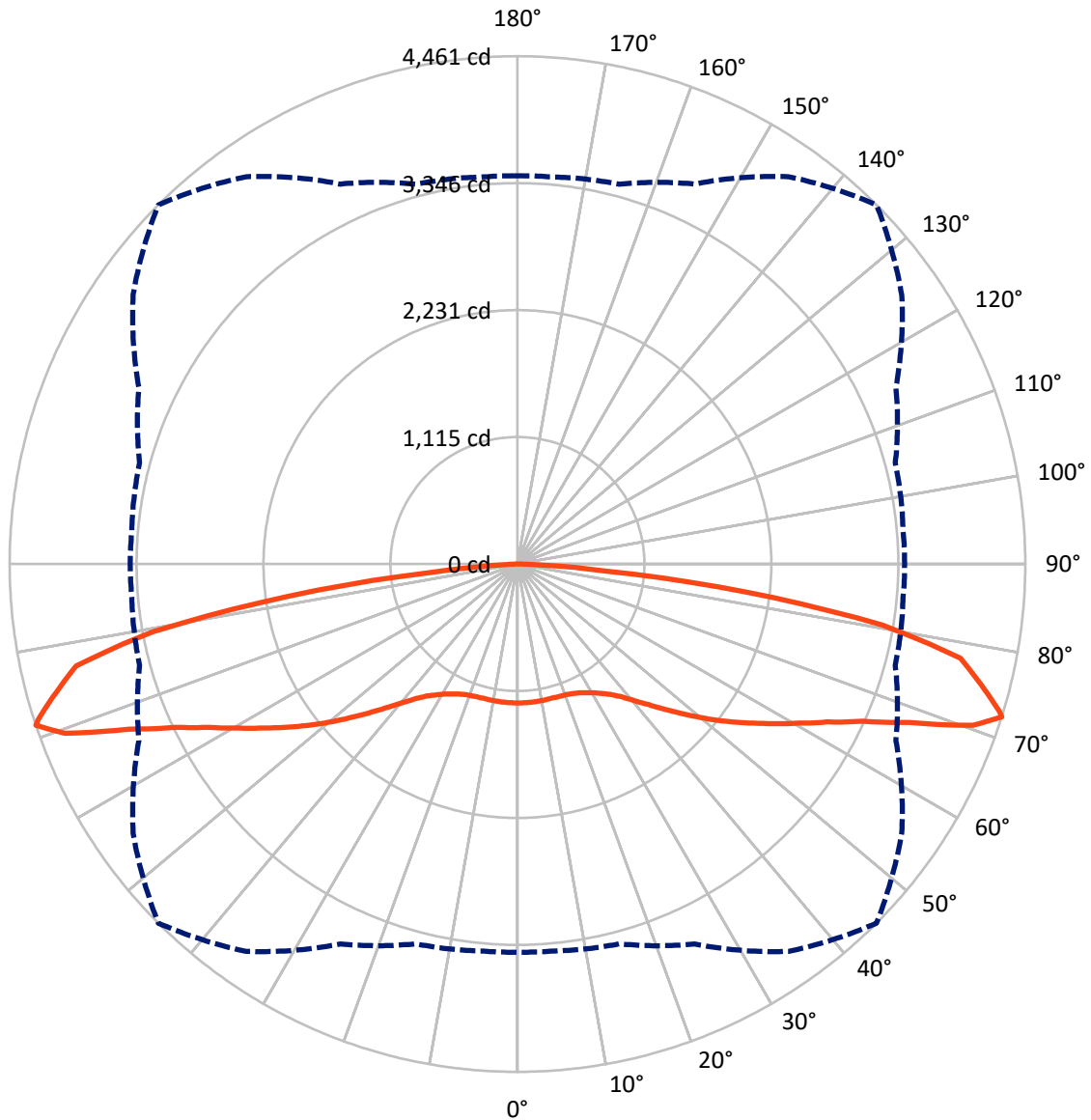


Based on 20 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - Non-Cutoff

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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	6463.1	0.0	6463.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6463.1	0.0	6463.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	12926.3	0.0	12926.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.5	0.9
10°-20°	346.1	2.7
20°-30°	581.4	4.5
30°-40°	884.8	6.8
40°-50°	1398.8	10.8
50°-60°	2136.4	16.5
60°-70°	3129.9	24.2
70°-80°	3555.8	27.5
80°-90°	776.7	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°	12926.3	100.0
0°-180°	12926.3	100.0



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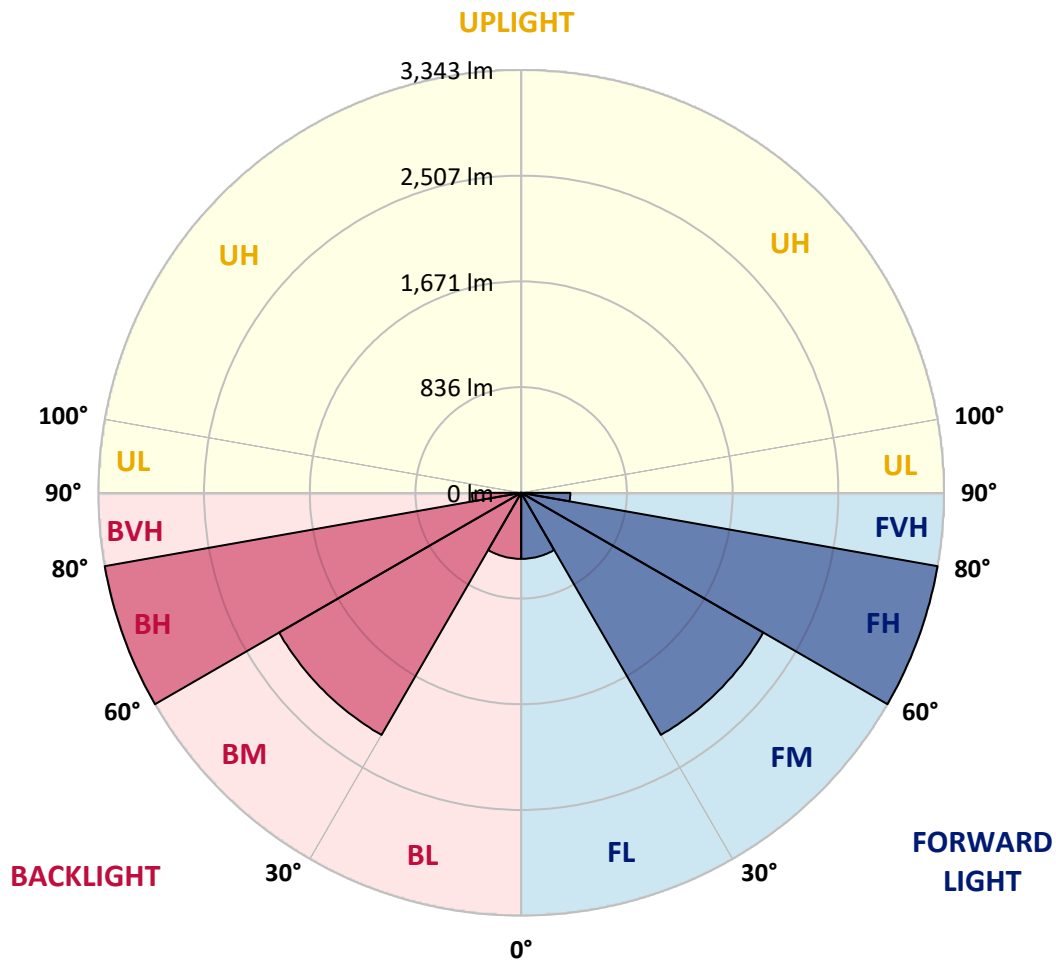
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	522.0	4.0			
FM (30°-60°)	2210.0	17.1			
FH (60°-80°)	3342.8	25.9			G2/5000
FVH (80°-90°)	388.3	3.0			G3/500
BL (0°-30°)	522.0	4.0	B2/1000		
BM (30°-60°)	2210.0	17.1	B2/2500		
BH (60°-80°)	3342.8	25.9	B4/5000		G2/5000
BVH (80°-90°)	388.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1220.7	1220.7	1220.7	1220.7	1220.7	1220.7	1220.7	1220.7	1220.7	1220.7	1220.7
2.5°	1223.2	1222.8	1221.9	1221.1	1220.7	1220.2	1220.2	1220.2	1220.1	1219.8	1220.1
5°	1223.2	1222.8	1222.2	1221.5	1220.9	1220.3	1220.3	1220.2	1220.0	1219.8	1220.3
7.5°	1221.5	1221.9	1221.3	1220.6	1220.4	1220.2	1220.0	1219.8	1219.4	1219.0	1219.2
10°	1221.9	1223.6	1222.4	1221.1	1220.7	1220.2	1219.4	1218.6	1218.4	1218.2	1217.8
12.5°	1222.8	1224.4	1223.0	1221.5	1220.9	1220.2	1219.4	1218.6	1217.9	1217.3	1216.7
15°	1225.3	1226.6	1225.3	1224.0	1222.8	1221.5	1220.7	1219.8	1218.6	1217.4	1216.7
17.5°	1226.9	1229.0	1227.6	1226.1	1224.6	1223.2	1222.4	1221.6	1220.7	1219.8	1218.8
20°	1229.9	1232.0	1230.8	1229.5	1228.6	1227.8	1227.2	1226.6	1225.9	1225.2	1223.8
22.5°	1235.3	1237.0	1236.6	1236.2	1236.4	1236.6	1236.8	1237.0	1236.6	1236.2	1234.7
25°	1246.6	1246.6	1247.4	1248.3	1249.5	1250.8	1251.8	1252.9	1253.5	1254.1	1252.2
27.5°	1266.2	1267.9	1268.6	1269.2	1271.3	1273.4	1275.7	1277.9	1279.2	1280.4	1278.6
30°	1291.8	1291.8	1293.2	1294.6	1298.2	1301.8	1304.7	1307.6	1310.0	1312.2	1310.8
32.5°	1324.4	1326.4	1328.6	1330.6	1335.0	1339.4	1344.4	1349.4	1352.4	1355.3	1353.0
35°	1374.1	1376.6	1378.7	1380.8	1385.4	1390.0	1395.6	1401.2	1403.8	1406.3	1404.8
37.5°	1444.4	1444.3	1447.2	1450.2	1453.1	1456.1	1463.6	1471.1	1474.2	1477.4	1474.8
40°	1539.2	1539.6	1540.3	1540.9	1543.6	1546.4	1555.6	1564.8	1570.2	1575.6	1570.4
42.5°	1648.3	1653.0	1652.8	1652.6	1654.4	1656.3	1665.1	1673.8	1681.6	1689.3	1686.2
45°	1777.1	1776.2	1774.6	1773.0	1778.6	1784.2	1796.8	1809.3	1816.2	1823.1	1816.6
47.5°	1907.1	1905.8	1903.6	1901.2	1906.9	1912.6	1931.4	1950.2	1960.0	1969.8	1959.4
50°	2036.7	2041.8	2038.8	2035.8	2044.2	2052.6	2076.4	2100.2	2114.7	2129.1	2117.0
52.5°	2180.1	2183.9	2180.5	2177.2	2188.6	2200.2	2228.4	2256.6	2275.8	2295.0	2278.8
55°	2328.5	2323.9	2325.8	2327.6	2338.5	2349.4	2384.1	2418.8	2441.8	2464.8	2446.4
57.5°	2467.2	2469.0	2467.1	2465.2	2482.3	2499.4	2543.1	2586.8	2615.7	2644.5	2621.5
60°	2609.4	2609.8	2605.6	2601.4	2620.0	2638.6	2701.4	2764.1	2801.5	2839.0	2807.4
62.5°	2768.3	2767.9	2760.5	2753.2	2775.2	2797.1	2874.9	2952.6	3004.1	3055.5	3017.0
65°	2963.0	2958.0	2953.9	2949.7	2975.0	3000.2	3096.8	3193.4	3262.8	3332.2	3282.7
67.5°	3250.2	3246.5	3237.7	3229.0	3257.2	3285.4	3409.2	3532.9	3622.6	3712.2	3646.8
70°	3566.3	3559.2	3565.3	3571.4	3636.6	3701.8	3867.7	4033.6	4139.8	4246.0	4136.1
72°	3410.4	3413.3	3433.6	3453.8	3568.2	3682.6	3918.3	4154.0	4307.7	4461.3	4291.4
72.5°	3356.0	3358.6	3381.6	3404.6	3513.6	3622.8	3865.8	4109.0	4268.0	4427.0	4252.3
75°	3125.3	3132.0	3158.5	3185.0	3295.6	3406.2	3651.4	3896.6	4048.9	4201.3	4026.3
77.5°	2748.6	2769.5	2796.5	2823.5	2955.1	3086.8	3364.0	3641.2	3809.4	3977.6	3779.1
80°	2097.7	2090.2	2136.6	2183.0	2308.8	2434.6	2649.1	2863.5	3057.3	3251.1	3027.8
82.5°	815.2	833.2	929.3	1025.4	1157.4	1289.2	1481.3	1673.4	1847.9	2022.5	1836.6
85°	84.0	95.8	130.2	164.7	236.6	308.5	425.6	542.6	657.4	772.1	647.5
87.5°	33.8	37.2	47.8	58.5	61.2	64.0	77.4	90.8	90.1	89.5	88.2
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°	1220.7	1220.7	1220.7	1220.7	1220.7	1220.7	1220.7	1220.7
2.5°	1220.2	1220.7	1221.1	1221.1	1221.1	1221.7	1222.4	1221.5
5°	1220.7	1220.9	1221.1	1221.1	1221.1	1221.7	1222.4	1221.5
7.5°	1219.4	1219.4	1219.4	1220.1	1220.7	1220.9	1221.1	1220.7
10°	1217.4	1217.6	1217.8	1218.4	1219.1	1219.6	1220.2	1220.7
12.5°	1216.1	1216.3	1216.5	1217.1	1217.8	1218.4	1219.0	1219.8
15°	1216.1	1216.3	1216.5	1216.9	1217.4	1218.2	1219.0	1219.8
17.5°	1217.8	1217.3	1216.9	1217.4	1217.8	1218.8	1219.8	1220.7
20°	1222.4	1221.7	1221.1	1221.1	1221.1	1222.2	1223.2	1223.2
22.5°	1233.2	1231.1	1229.0	1228.6	1228.2	1228.4	1228.6	1229.0
25°	1250.4	1247.0	1243.6	1242.6	1241.6	1241.2	1240.8	1241.6
27.5°	1276.7	1273.0	1269.2	1266.9	1264.6	1263.3	1262.0	1262.5
30°	1309.3	1304.9	1300.6	1296.8	1293.0	1291.3	1289.6	1290.1
32.5°	1350.7	1345.5	1340.2	1335.2	1330.2	1327.9	1325.6	1326.0
35°	1403.4	1397.3	1391.2	1387.0	1382.8	1379.3	1375.8	1378.7
37.5°	1472.4	1466.7	1461.0	1458.4	1455.6	1452.5	1449.4	1449.8
40°	1565.2	1559.3	1553.4	1551.1	1548.8	1544.8	1540.9	1541.7
42.5°	1683.0	1674.2	1665.4	1661.3	1657.1	1655.2	1653.4	1654.6
45°	1810.2	1801.4	1792.6	1789.0	1785.4	1780.4	1775.4	1780.0
47.5°	1948.9	1937.8	1926.8	1920.5	1914.2	1915.9	1917.6	1913.8
50°	2104.8	2086.2	2067.6	2060.3	2053.0	2053.0	2053.0	2052.6
52.5°	2262.4	2236.7	2211.0	2204.8	2198.5	2197.0	2195.6	2193.9
55°	2428.0	2396.4	2364.8	2353.1	2341.4	2343.1	2344.8	2349.4
57.5°	2598.6	2557.0	2515.4	2502.0	2488.6	2489.6	2490.7	2498.2
60°	2775.8	2722.1	2668.4	2653.5	2638.6	2642.6	2646.6	2651.2
62.5°	2978.6	2913.6	2848.6	2828.7	2808.8	2813.8	2818.8	2831.0
65°	3233.1	3152.0	3070.9	3050.2	3029.5	3031.8	3034.1	3055.0
67.5°	3581.4	3473.3	3365.2	3346.2	3327.2	3330.5	3333.9	3367.7
70°	4026.2	3866.0	3705.9	3627.1	3548.4	3536.0	3523.7	3541.6
72°	4121.4	3895.3	3669.2	3552.9	3436.7	3418.5	3400.4	3402.0
72.5°	4077.6	3848.9	3620.2	3507.4	3394.5	3379.7	3364.8	3361.9
75°	3851.4	3627.8	3404.2	3287.5	3170.8	3142.6	3114.4	3114.4
77.5°	3580.6	3298.6	3016.6	2890.8	2764.9	2735.5	2706.0	2683.0
80°	2804.6	2551.9	2299.2	2171.6	2043.8	1996.6	1949.4	1921.3
82.5°	1650.8	1418.4	1186.0	1023.8	861.6	812.9	764.2	696.5
85°	523.0	402.4	281.8	219.9	158.0	127.7	97.4	85.3
87.5°	86.9	70.6	54.4	52.5	50.6	39.7	28.8	24.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)