

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: P144266

Luminaire Tested: **LDRL-5XQ-F05-E-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P144266
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-7050
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (35) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13096.2 lumens
Efficiency: N/A
Efficacy: 98.2 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

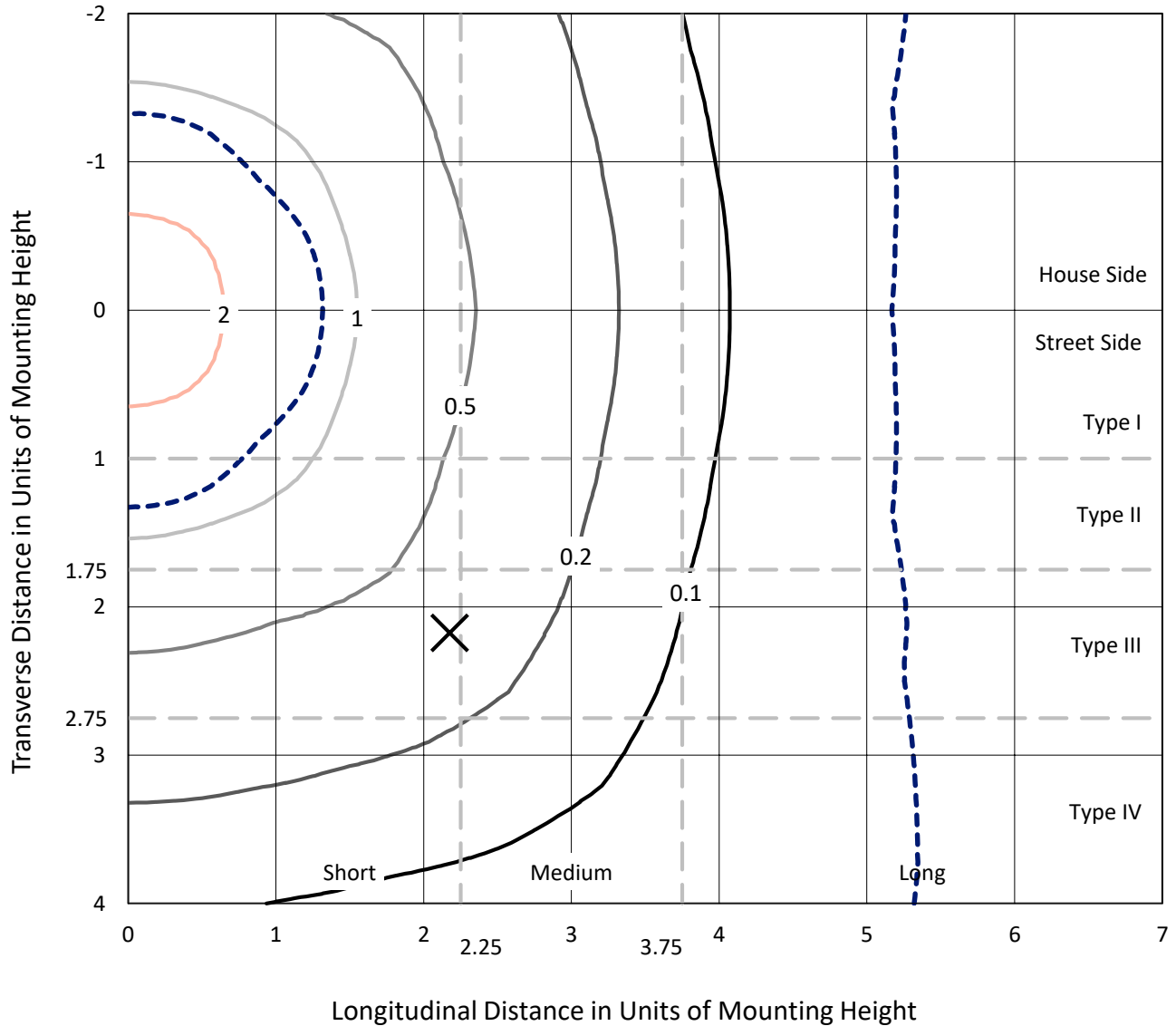
Input Watts (W): 133.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

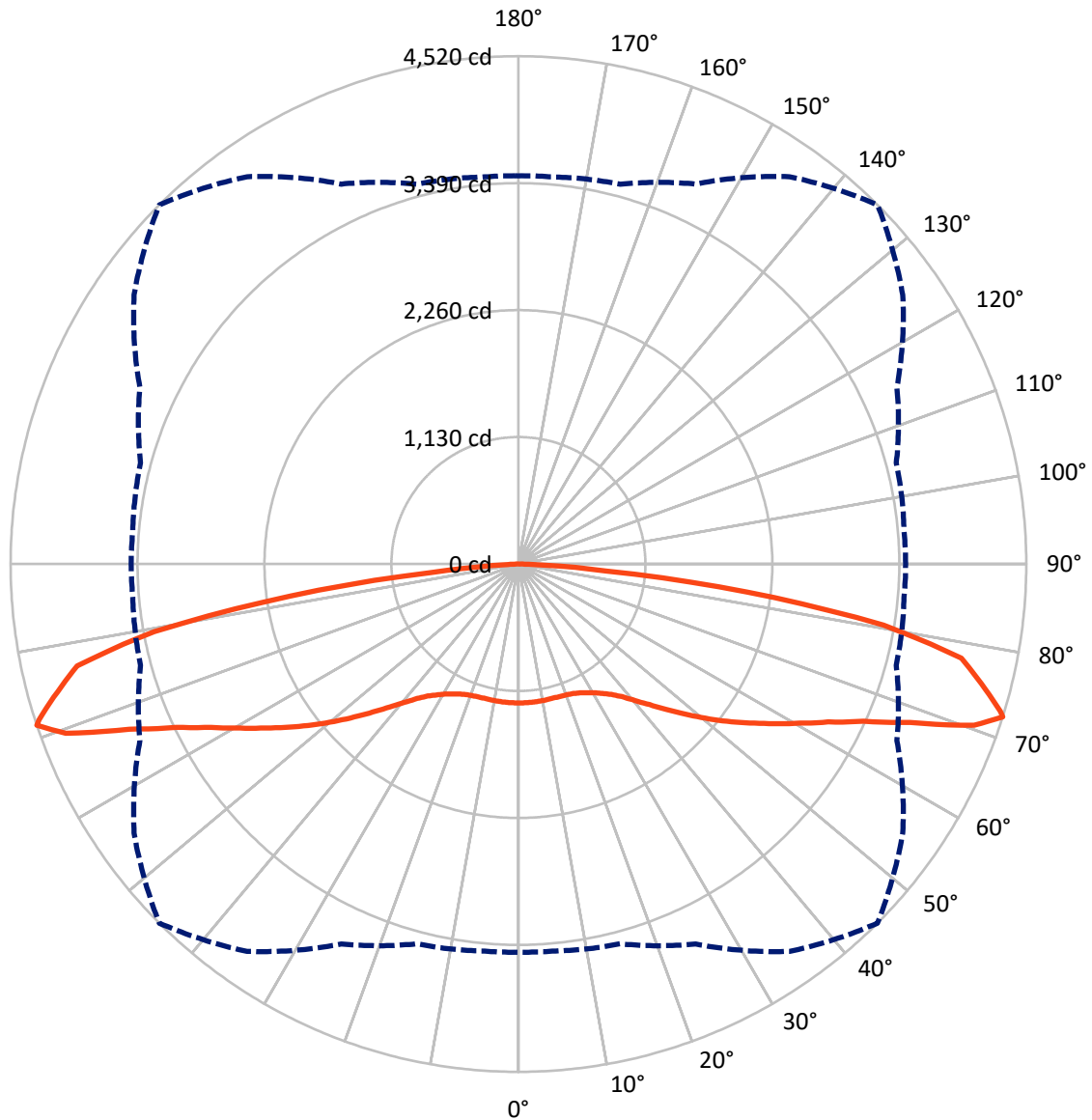


Based on 20 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - Non-Cutoff

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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	6548.1	0.0	6548.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6548.1	0.0	6548.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	13096.2	0.0	13096.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.0	0.9
10°-20°	350.6	2.7
20°-30°	589.0	4.5
30°-40°	896.4	6.8
40°-50°	1417.2	10.8
50°-60°	2164.5	16.5
60°-70°	3171.0	24.2
70°-80°	3602.5	27.5
80°-90°	786.9	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°	13096.2	100.0
0°-180°	13096.2	100.0



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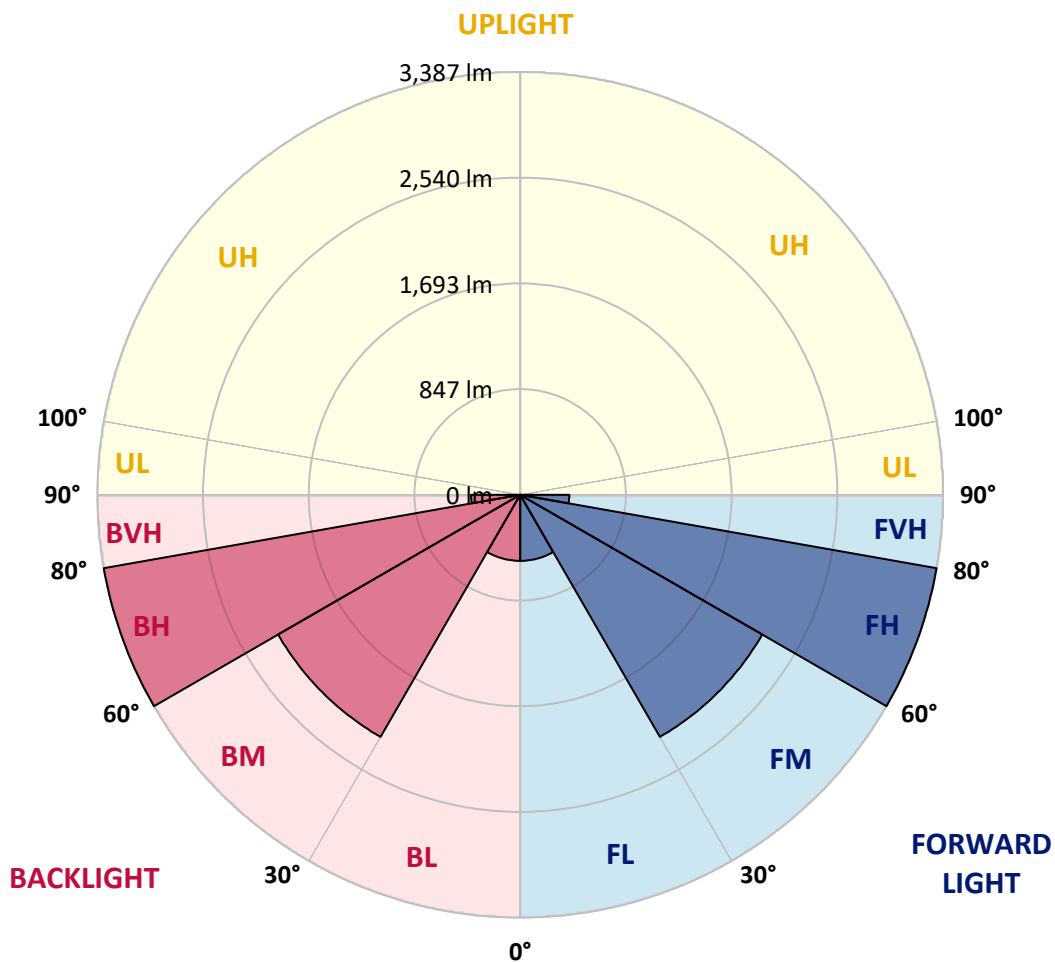
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	528.8	4.0			
FM (30°-60°)	2239.1	17.1			
FH (60°-80°)	3386.8	25.9			G2/5000
FVH (80°-90°)	393.5	3.0			G3/500
BL (0°-30°)	528.8	4.0	B2/1000		
BM (30°-60°)	2239.1	17.1	B2/2500		
BH (60°-80°)	3386.8	25.9	B4/5000		G2/5000
BVH (80°-90°)	393.5	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°	1236.7	1236.7	1236.7	1236.7	1236.7	1236.7	1236.7	1236.7	1236.7	1236.7	1236.7
2.5°	1239.2	1238.8	1238.0	1237.2	1236.7	1236.3	1236.3	1236.3	1236.1	1235.9	1236.1
5°	1239.3	1238.8	1238.2	1237.6	1236.9	1236.3	1236.3	1236.4	1236.1	1235.9	1236.3
7.5°	1237.6	1238.0	1237.4	1236.7	1236.5	1236.3	1236.1	1235.9	1235.5	1235.1	1235.2
10°	1238.0	1239.7	1238.4	1237.2	1236.7	1236.3	1235.4	1234.6	1234.4	1234.2	1233.8
12.5°	1238.8	1240.6	1239.1	1237.6	1237.0	1236.3	1235.4	1234.6	1234.0	1233.4	1232.7
15°	1241.4	1242.6	1241.4	1240.2	1238.9	1237.6	1236.8	1235.9	1234.6	1233.4	1232.7
17.5°	1243.1	1245.2	1243.7	1242.2	1240.8	1239.3	1238.4	1237.6	1236.7	1235.8	1234.8
20°	1246.0	1248.2	1246.9	1245.6	1244.8	1243.9	1243.3	1242.6	1242.0	1241.4	1239.9
22.5°	1251.6	1253.2	1252.8	1252.4	1252.6	1252.8	1253.0	1253.2	1252.8	1252.4	1250.9
25°	1263.0	1263.0	1263.8	1264.6	1265.9	1267.2	1268.3	1269.4	1270.0	1270.6	1268.7
27.5°	1282.9	1284.6	1285.2	1285.8	1288.0	1290.1	1292.4	1294.8	1296.0	1297.3	1295.4
30°	1308.8	1308.8	1310.2	1311.7	1315.3	1318.9	1321.9	1324.8	1327.2	1329.5	1328.0
32.5°	1341.8	1343.9	1346.0	1348.1	1352.6	1357.0	1362.1	1367.2	1370.1	1373.1	1370.8
35°	1392.2	1394.8	1396.8	1398.9	1403.6	1408.2	1414.0	1419.7	1422.2	1424.8	1423.3
37.5°	1463.3	1463.4	1466.3	1469.2	1472.2	1475.1	1482.8	1490.4	1493.6	1496.8	1494.2
40°	1559.4	1559.9	1560.5	1561.2	1563.9	1566.6	1576.0	1585.3	1590.8	1596.3	1591.0
42.5°	1670.0	1674.6	1674.4	1674.2	1676.2	1678.0	1687.0	1695.8	1703.7	1711.6	1708.4
45°	1800.4	1799.6	1797.9	1796.2	1802.0	1807.6	1820.4	1833.1	1840.1	1847.0	1840.5
47.5°	1932.2	1930.9	1928.6	1926.2	1932.0	1937.7	1956.8	1975.8	1985.8	1995.8	1985.2
50°	2063.5	2068.6	2065.6	2062.6	2071.1	2079.6	2103.7	2127.9	2142.5	2157.1	2144.8
52.5°	2208.8	2212.6	2209.2	2205.8	2217.4	2229.1	2257.7	2286.2	2305.7	2325.2	2308.7
55°	2359.1	2354.4	2356.4	2358.2	2369.3	2380.3	2415.4	2450.6	2473.9	2497.2	2478.5
57.5°	2499.8	2501.4	2499.5	2497.6	2515.0	2532.4	2576.6	2620.8	2650.1	2679.3	2656.0
60°	2643.8	2644.2	2639.9	2635.7	2654.5	2673.4	2736.9	2800.4	2838.3	2876.2	2844.2
62.5°	2804.7	2804.2	2796.9	2789.4	2811.7	2833.9	2912.7	2991.4	3043.5	3095.6	3056.6
65°	3002.0	2997.0	2992.7	2988.4	3014.1	3039.8	3137.6	3235.4	3305.7	3376.0	3325.8
67.5°	3293.0	3289.2	3280.3	3271.4	3300.0	3328.6	3454.0	3579.3	3670.2	3761.0	3694.8
70°	3613.2	3606.0	3612.2	3618.3	3684.4	3750.4	3918.6	4086.8	4194.3	4301.8	4190.5
72°	3455.2	3458.2	3478.7	3499.2	3615.1	3731.0	3969.8	4208.7	4364.4	4520.0	4347.8
72.5°	3400.2	3402.7	3426.0	3449.3	3559.8	3670.4	3916.6	4163.0	4324.1	4485.3	4308.2
75°	3166.4	3173.1	3200.0	3226.9	3339.0	3451.0	3699.4	3947.8	4102.2	4256.6	4079.3
77.5°	2784.8	2806.0	2833.2	2860.6	2994.0	3127.4	3408.2	3689.0	3859.5	4030.0	3828.8
80°	2125.3	2117.7	2164.7	2211.7	2339.2	2466.6	2684.0	2901.2	3097.6	3293.8	3067.7
82.5°	825.9	844.2	941.6	1038.9	1172.6	1306.2	1500.8	1695.4	1872.2	2049.1	1860.8
85°	85.1	96.9	131.9	166.8	239.7	312.6	431.2	549.8	666.0	782.2	656.0
87.5°	34.3	37.7	48.5	59.3	62.0	64.8	78.4	91.9	91.3	90.6	89.4
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°	1236.7	1236.7	1236.7	1236.7	1236.7	1236.7	1236.7	1236.7
2.5°	1236.3	1236.7	1237.2	1237.1	1237.2	1237.8	1238.4	1237.6
5°	1236.7	1236.9	1237.2	1237.1	1237.2	1237.8	1238.4	1237.6
7.5°	1235.4	1235.4	1235.4	1236.1	1236.8	1236.9	1237.2	1236.7
10°	1233.4	1233.6	1233.8	1234.4	1235.0	1235.6	1236.3	1236.7
12.5°	1232.0	1232.3	1232.5	1233.1	1233.8	1234.4	1235.0	1235.9
15°	1232.0	1232.3	1232.5	1232.9	1233.4	1234.2	1235.1	1235.9
17.5°	1233.8	1233.3	1232.9	1233.3	1233.8	1234.8	1235.8	1236.7
20°	1238.4	1237.8	1237.2	1237.2	1237.2	1238.2	1239.2	1239.3
22.5°	1249.4	1247.3	1245.2	1244.8	1244.4	1244.6	1244.8	1245.2
25°	1266.8	1263.4	1260.0	1259.0	1257.9	1257.5	1257.1	1257.9
27.5°	1293.4	1289.6	1285.8	1283.5	1281.2	1279.9	1278.6	1279.1
30°	1326.5	1322.1	1317.6	1313.8	1310.0	1308.3	1306.6	1307.0
32.5°	1368.4	1363.2	1357.9	1352.8	1347.7	1345.4	1343.0	1343.5
35°	1421.8	1415.6	1409.5	1405.3	1401.1	1397.5	1393.8	1396.8
37.5°	1491.7	1486.0	1480.2	1477.5	1474.8	1471.6	1468.4	1468.8
40°	1585.7	1579.8	1573.8	1571.5	1569.2	1565.2	1561.2	1562.0
42.5°	1705.2	1696.3	1687.4	1683.2	1678.9	1677.0	1675.1	1676.4
45°	1833.9	1825.0	1816.1	1812.5	1808.9	1803.8	1798.8	1803.4
47.5°	1974.6	1963.3	1952.0	1945.7	1939.4	1941.1	1942.8	1939.0
50°	2132.5	2113.6	2094.8	2087.4	2080.0	2080.0	2080.0	2079.6
52.5°	2292.2	2266.2	2240.1	2233.8	2227.4	2225.9	2224.4	2222.7
55°	2459.9	2427.9	2396.0	2384.1	2372.2	2374.0	2375.6	2380.3
57.5°	2632.7	2590.6	2548.4	2534.9	2521.4	2522.4	2523.4	2531.1
60°	2812.3	2757.9	2703.4	2688.4	2673.4	2677.4	2681.4	2686.1
62.5°	3017.7	2951.8	2886.0	2865.9	2845.8	2850.8	2856.0	2868.2
65°	3275.6	3193.5	3111.3	3090.4	3069.4	3071.7	3074.0	3095.2
67.5°	3628.4	3519.0	3409.4	3390.2	3370.9	3374.3	3377.7	3412.0
70°	4079.1	3916.9	3754.7	3674.8	3595.0	3582.5	3570.0	3588.2
72°	4175.6	3946.5	3717.4	3599.6	3481.9	3463.5	3445.0	3446.8
72.5°	4131.2	3899.5	3667.8	3553.5	3439.2	3424.1	3409.0	3406.1
75°	3902.1	3675.5	3448.9	3330.7	3212.5	3184.0	3155.4	3155.4
77.5°	3627.6	3341.9	3056.2	2928.8	2801.3	2771.4	2741.6	2718.3
80°	2841.5	2585.5	2329.5	2200.1	2070.6	2022.8	1975.0	1946.6
82.5°	1672.6	1437.1	1201.6	1037.2	872.9	823.6	774.2	705.6
85°	529.8	407.6	285.4	222.8	160.1	129.4	98.7	86.4
87.5°	88.1	71.6	55.0	53.2	51.2	40.2	29.2	24.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)