

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: P144268

Luminaire Tested: **LDRL-5XQ-E06-E-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P144268
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-E06-E-8030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (126) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15658.2 lumens
Efficiency: N/A
Efficacy: 104.0 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): 150.5
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

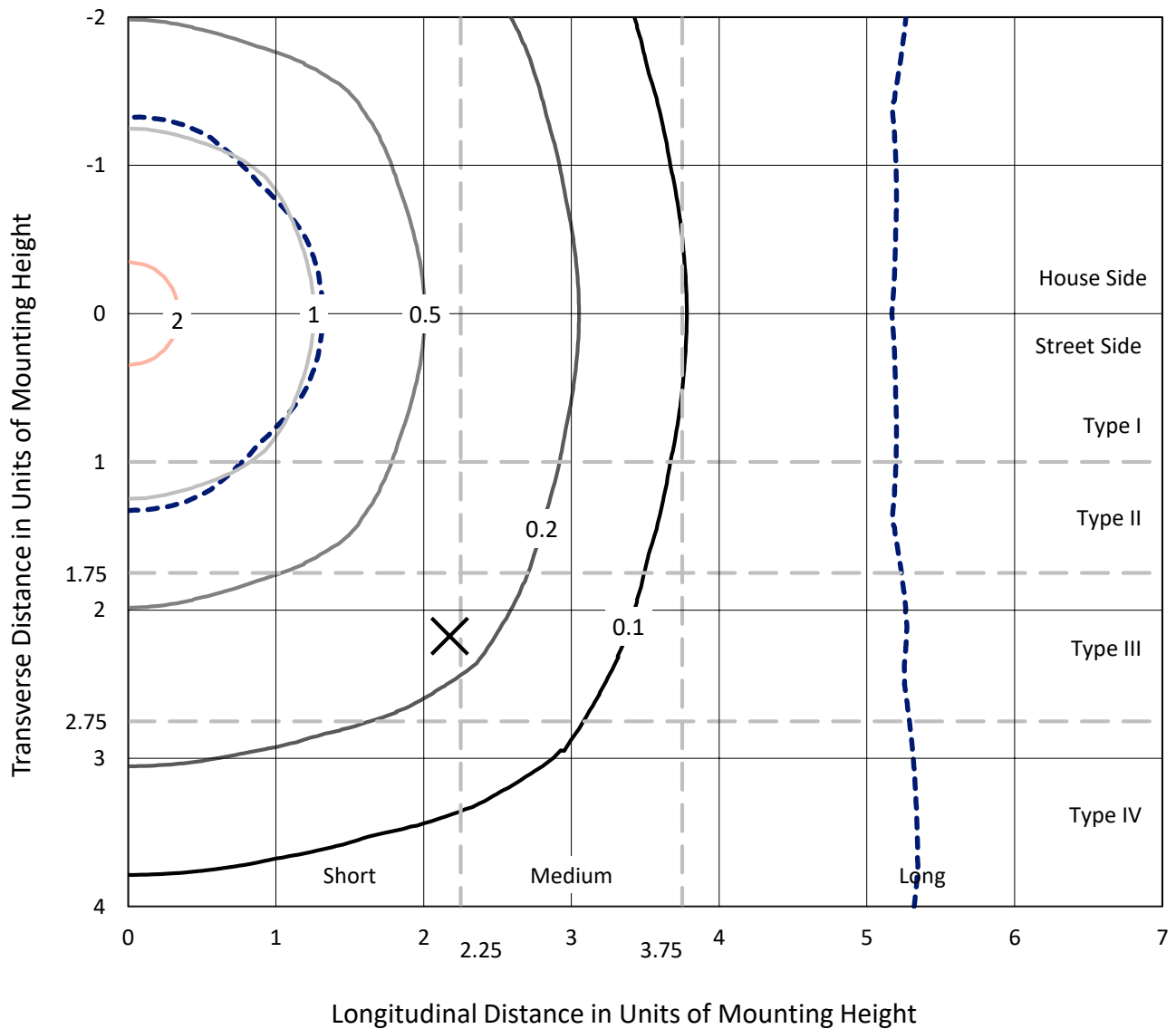


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

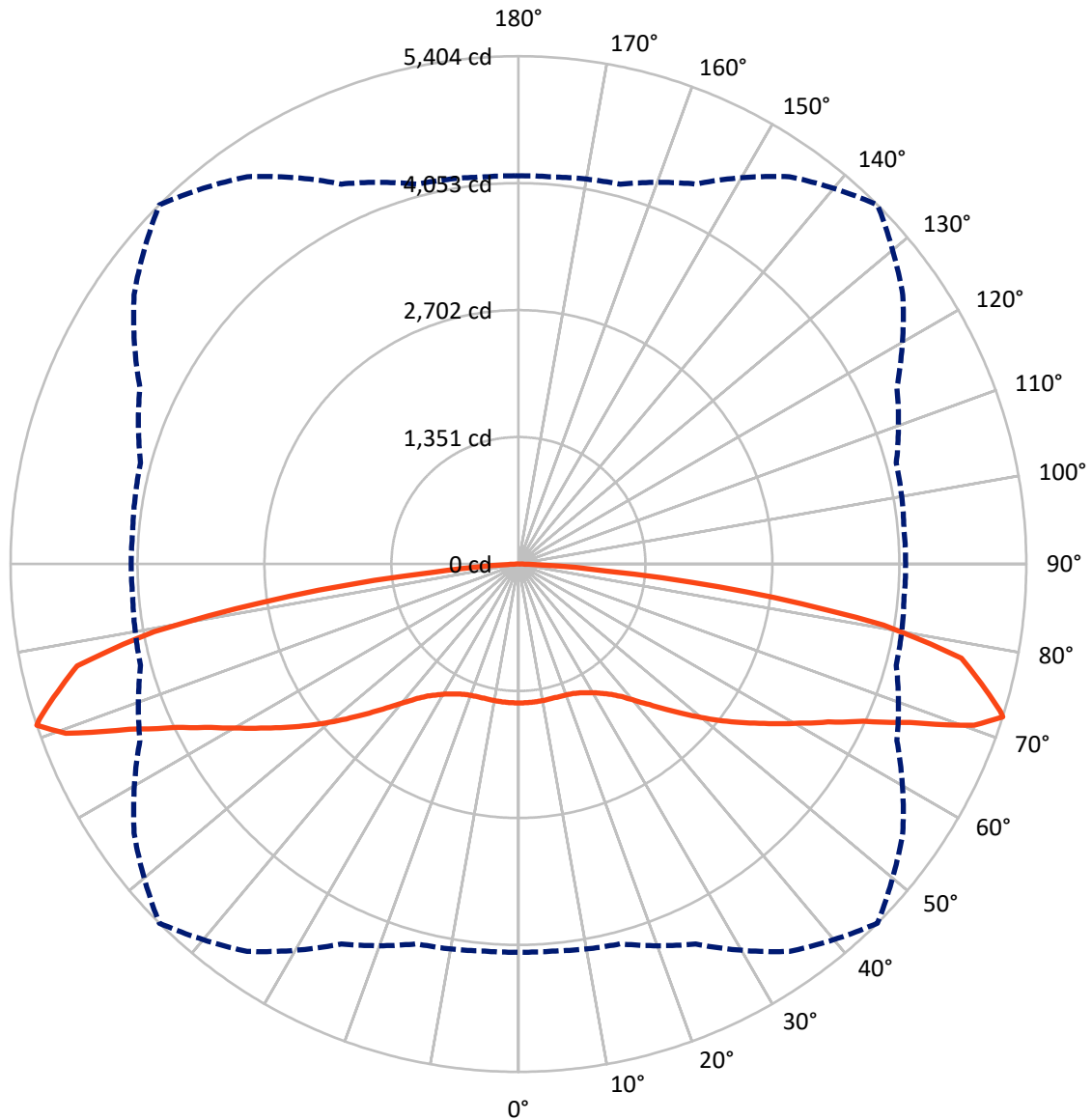


Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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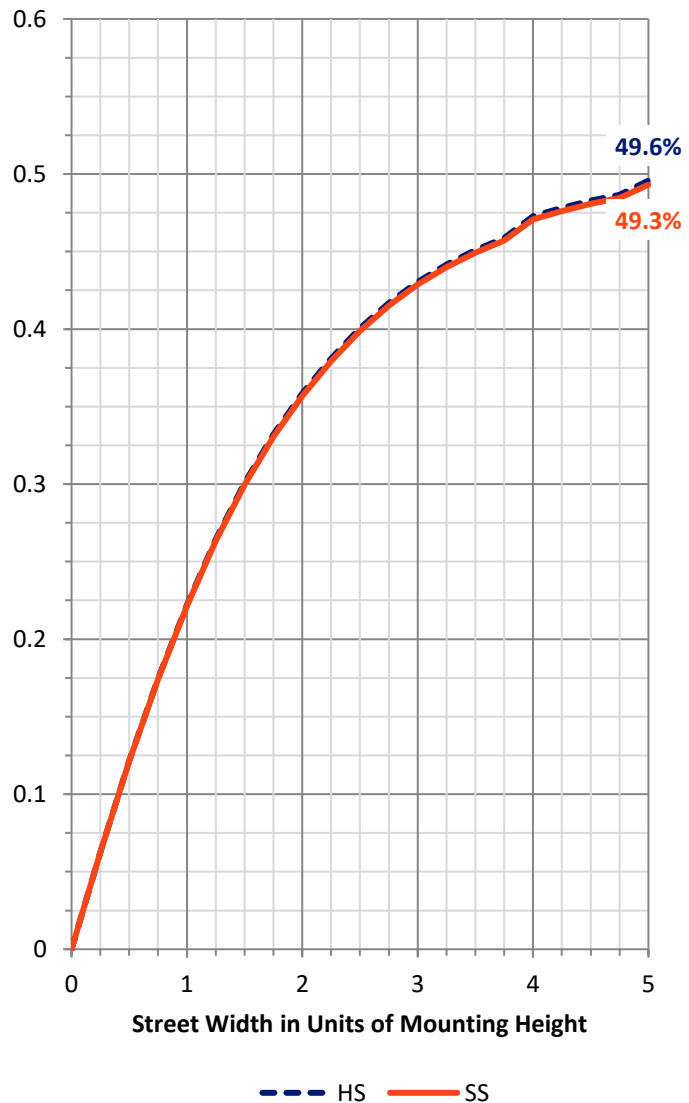
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7829.1	0.0	7829.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7829.1	0.0	7829.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	15658.2	0.0	15658.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.1	0.9
10°-20°	419.2	2.7
20°-30°	704.2	4.5
30°-40°	1071.8	6.8
40°-50°	1694.4	10.8
50°-60°	2587.9	16.5
60°-70°	3791.4	24.2
70°-80°	4307.3	27.5
80°-90°	940.8	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°	15658.2	100.0
0°-180°	15658.2	100.0

Coefficient of Utilization



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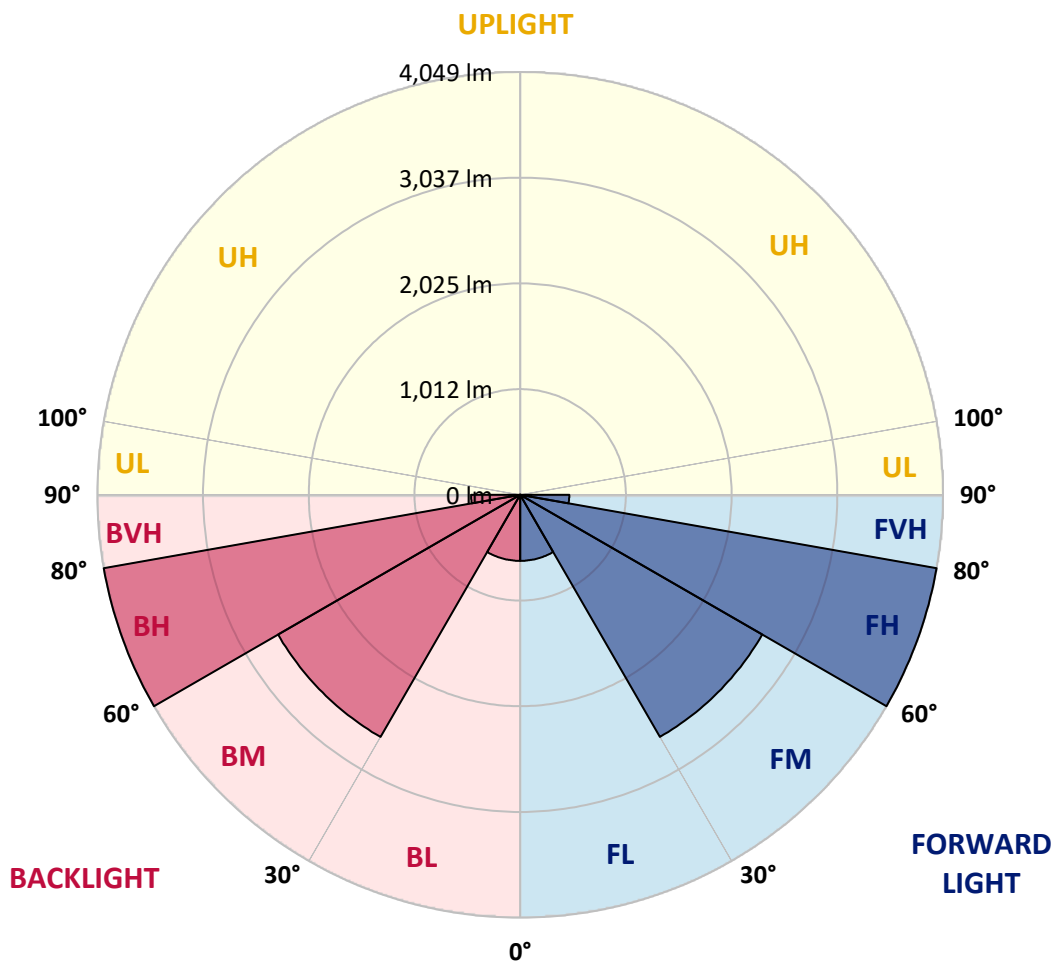
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	632.3	4.0			
FM	(30°-60°)	2677.1	17.1			
FH	(60°-80°)	4049.3	25.9			G2/5000
FVH	(80°-90°)	470.4	3.0			G3/500
BL	(0°-30°)	632.3	4.0	B2/1000		
BM	(30°-60°)	2677.1	17.1	B3/5000		
BH	(60°-80°)	4049.3	25.9	B4/5000		G2/5000
BVH	(80°-90°)	470.4	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°	1478.7	1478.7	1478.7	1478.7	1478.7	1478.7	1478.7	1478.7	1478.7	1478.7	1478.7
2.5°	1481.7	1481.2	1480.2	1479.2	1478.7	1478.1	1478.1	1478.1	1477.9	1477.6	1477.9
5°	1481.8	1481.2	1480.5	1479.7	1479.0	1478.2	1478.2	1478.2	1477.9	1477.6	1478.1
7.5°	1479.7	1480.2	1479.4	1478.6	1478.4	1478.2	1477.9	1477.6	1477.2	1476.6	1476.9
10°	1480.2	1482.2	1480.7	1479.2	1478.7	1478.2	1477.2	1476.2	1475.9	1475.6	1475.1
12.5°	1481.2	1483.2	1481.4	1479.6	1478.9	1478.2	1477.1	1476.1	1475.4	1474.6	1473.8
15°	1484.2	1485.8	1484.2	1482.8	1481.2	1479.6	1478.6	1477.6	1476.1	1474.6	1473.9
17.5°	1486.2	1488.8	1487.0	1485.2	1483.5	1481.8	1480.7	1479.7	1478.7	1477.6	1476.4
20°	1489.8	1492.4	1490.8	1489.4	1488.3	1487.2	1486.5	1485.8	1485.0	1484.2	1482.5
22.5°	1496.4	1498.4	1498.0	1497.4	1497.7	1498.0	1498.2	1498.4	1497.9	1497.4	1495.6
25°	1510.1	1510.0	1511.1	1512.1	1513.6	1515.2	1516.4	1517.6	1518.4	1519.2	1516.9
27.5°	1533.8	1535.9	1536.6	1537.4	1540.0	1542.5	1545.2	1548.0	1549.6	1551.1	1548.8
30°	1564.8	1564.8	1566.5	1568.3	1572.6	1576.9	1580.4	1584.0	1586.8	1589.6	1587.8
32.5°	1604.2	1606.8	1609.3	1611.9	1617.2	1622.5	1628.6	1634.6	1638.2	1641.8	1639.0
35°	1664.6	1667.6	1670.1	1672.6	1678.2	1683.8	1690.6	1697.4	1700.5	1703.5	1701.7
37.5°	1749.6	1749.6	1753.1	1756.6	1760.2	1763.8	1772.9	1782.0	1785.8	1789.6	1786.6
40°	1864.6	1865.1	1865.8	1866.6	1869.9	1873.2	1884.3	1895.4	1902.0	1908.6	1902.3
42.5°	1996.8	2002.3	2002.0	2001.8	2004.1	2006.4	2017.0	2027.6	2037.0	2046.3	2042.5
45°	2152.7	2151.7	2149.7	2147.6	2154.5	2161.3	2176.5	2191.7	2200.0	2208.4	2200.5
47.5°	2310.2	2308.6	2305.9	2303.1	2309.9	2316.8	2339.5	2362.3	2374.2	2386.1	2373.4
50°	2467.1	2473.2	2469.7	2466.1	2476.3	2486.4	2515.2	2544.1	2561.6	2579.0	2564.4
52.5°	2640.8	2645.4	2641.4	2637.4	2651.2	2665.2	2699.3	2733.5	2756.8	2780.1	2760.4
55°	2820.6	2815.0	2817.3	2819.6	2832.8	2846.0	2888.0	2930.0	2957.9	2985.7	2963.4
57.5°	2988.7	2990.8	2988.5	2986.2	3007.0	3027.8	3080.6	3133.6	3168.5	3203.5	3175.6
60°	3160.9	3161.4	3156.3	3151.3	3173.8	3196.4	3272.3	3348.3	3393.6	3438.9	3400.7
62.5°	3353.3	3352.8	3344.0	3335.1	3361.7	3388.3	3482.5	3576.6	3639.0	3701.2	3654.6
65°	3589.4	3583.2	3578.2	3573.2	3603.8	3634.4	3751.4	3868.4	3952.4	4036.4	3976.4
67.5°	3937.2	3932.6	3922.0	3911.4	3945.6	3979.8	4129.6	4279.5	4388.1	4496.8	4417.5
70°	4320.0	4311.4	4318.8	4326.1	4405.1	4484.1	4685.2	4886.2	5014.8	5143.4	5010.2
72°	4131.2	4134.7	4159.2	4183.8	4322.3	4460.8	4746.4	5032.0	5218.1	5404.2	5198.4
72.5°	4065.4	4068.4	4096.2	4124.0	4256.2	4388.4	4682.9	4977.4	5170.0	5362.7	5151.0
75°	3785.8	3793.9	3826.0	3858.2	3992.2	4126.1	4423.1	4720.1	4904.7	5089.2	4877.3
77.5°	3329.6	3354.8	3387.5	3420.2	3579.7	3739.2	4075.0	4410.7	4614.5	4818.4	4577.8
80°	2541.1	2532.0	2588.2	2644.4	2796.8	2949.2	3209.0	3468.8	3703.5	3938.2	3667.8
82.5°	987.4	1009.2	1125.7	1242.2	1402.0	1561.7	1794.4	2027.1	2238.5	2449.9	2224.8
85°	101.8	116.0	157.7	199.5	286.6	373.7	515.5	657.3	796.3	935.3	784.4
87.5°	41.0	45.0	58.0	70.9	74.2	77.5	93.7	109.9	109.1	108.4	106.8
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°	1478.7	1478.7	1478.7	1478.7	1478.7	1478.7	1478.7	1478.7
2.5°	1478.1	1478.6	1479.1	1479.1	1479.1	1479.9	1480.7	1479.7
5°	1478.6	1478.9	1479.1	1479.1	1479.1	1479.9	1480.7	1479.7
7.5°	1477.1	1477.1	1477.1	1477.9	1478.6	1478.9	1479.2	1478.7
10°	1474.6	1474.8	1475.1	1475.9	1476.6	1477.4	1478.2	1478.7
12.5°	1473.1	1473.4	1473.6	1474.4	1475.1	1475.9	1476.6	1477.7
15°	1473.1	1473.4	1473.6	1474.1	1474.6	1475.6	1476.6	1477.7
17.5°	1475.1	1474.6	1474.1	1474.6	1475.1	1476.4	1477.6	1478.7
20°	1480.7	1479.9	1479.2	1479.2	1479.2	1480.4	1481.7	1481.7
22.5°	1493.8	1491.3	1488.8	1488.3	1487.8	1488.1	1488.3	1488.8
25°	1514.6	1510.6	1506.5	1505.2	1504.0	1503.5	1503.0	1504.0
27.5°	1546.6	1542.0	1537.4	1534.6	1531.8	1530.3	1528.8	1529.3
30°	1586.0	1580.7	1575.4	1570.8	1566.3	1564.3	1562.2	1562.7
32.5°	1636.2	1629.8	1623.5	1617.4	1611.4	1608.6	1605.8	1606.3
35°	1700.0	1692.6	1685.2	1680.2	1675.2	1670.8	1666.6	1670.1
37.5°	1783.5	1776.7	1769.8	1766.6	1763.3	1759.5	1755.6	1756.2
40°	1896.0	1888.8	1881.8	1879.0	1876.2	1871.4	1866.6	1867.6
42.5°	2038.8	2028.1	2017.5	2012.4	2007.4	2005.1	2002.8	2004.3
45°	2192.6	2182.0	2171.4	2167.1	2162.8	2156.7	2150.6	2156.2
47.5°	2360.8	2347.4	2334.0	2326.4	2318.8	2320.8	2322.8	2318.3
50°	2549.7	2527.2	2504.6	2495.8	2486.9	2486.9	2486.9	2486.4
52.5°	2740.6	2709.5	2678.3	2670.7	2663.1	2661.4	2659.6	2657.6
55°	2941.1	2902.9	2864.7	2850.5	2836.3	2838.3	2840.4	2845.9
57.5°	3147.8	3097.4	3047.0	3030.8	3014.5	3015.8	3017.1	3026.2
60°	3362.4	3297.4	3232.3	3214.3	3196.4	3201.2	3206.0	3211.6
62.5°	3608.0	3529.3	3450.6	3426.5	3402.4	3408.5	3414.6	3429.3
65°	3916.4	3818.2	3720.0	3694.9	3669.8	3672.6	3675.4	3700.7
67.5°	4338.3	4207.4	4076.4	4053.4	4030.4	4034.4	4038.5	4079.5
70°	4877.0	4683.1	4489.2	4393.7	4298.2	4283.3	4268.4	4290.2
72°	4992.6	4718.6	4444.6	4303.8	4163.0	4141.0	4119.0	4121.0
72.5°	4939.4	4662.4	4385.4	4248.6	4111.9	4094.0	4076.0	4072.4
75°	4665.4	4394.5	4123.6	3982.3	3841.0	3806.8	3772.6	3772.6
77.5°	4337.2	3995.7	3654.2	3501.7	3349.3	3313.6	3277.9	3250.0
80°	3397.4	3091.3	2785.2	2630.5	2475.8	2418.5	2361.4	2327.4
82.5°	1999.8	1718.2	1436.6	1240.2	1043.7	984.7	925.6	843.7
85°	633.5	487.4	341.3	266.4	191.4	154.7	118.0	103.3
87.5°	105.4	85.6	65.8	63.6	61.2	48.1	34.9	29.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)