

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: P144275

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P144275
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
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15315.7 lumens
Efficiency: N/A
Efficacy: 97.9 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

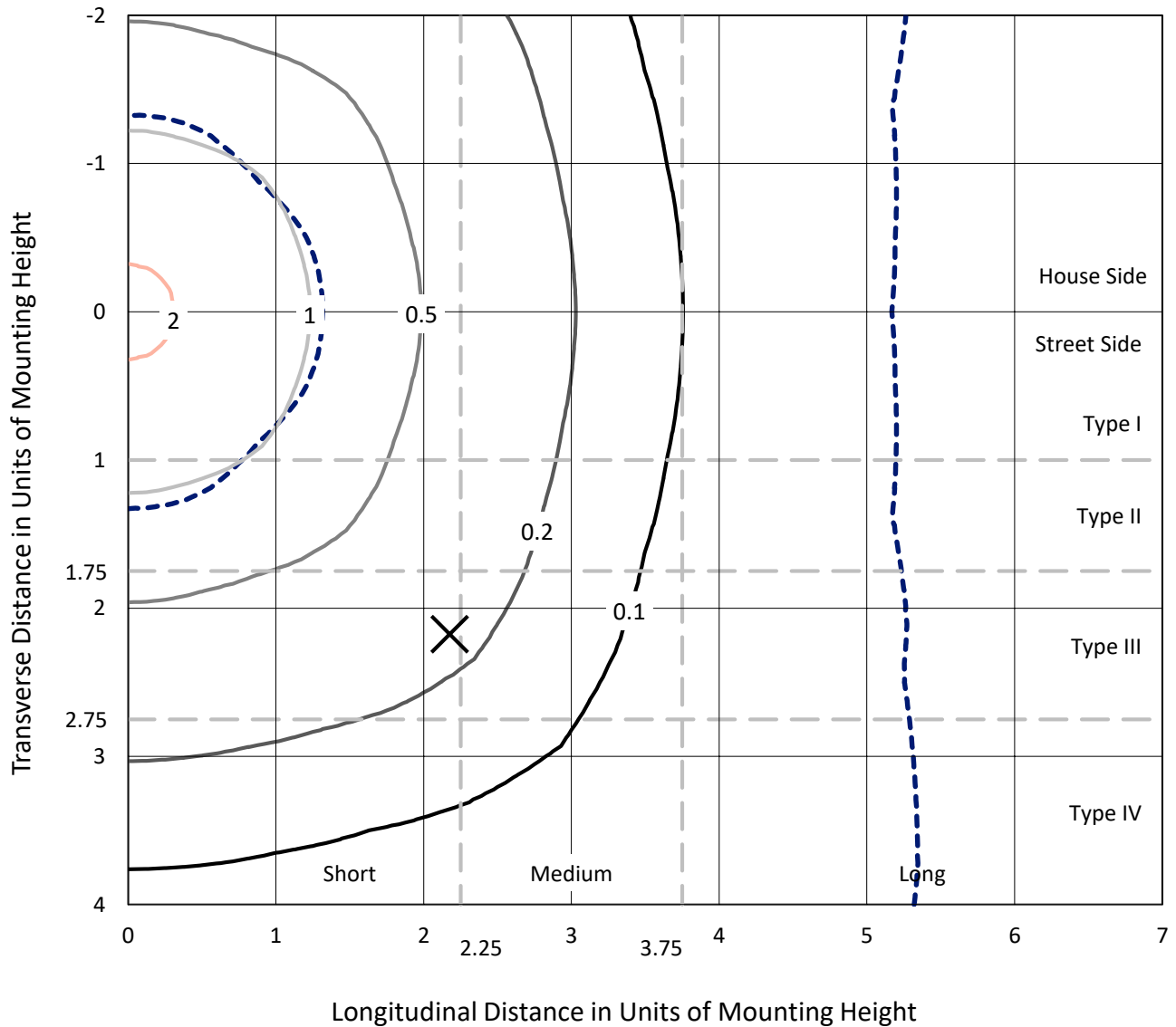
Input Watts (W): 156.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

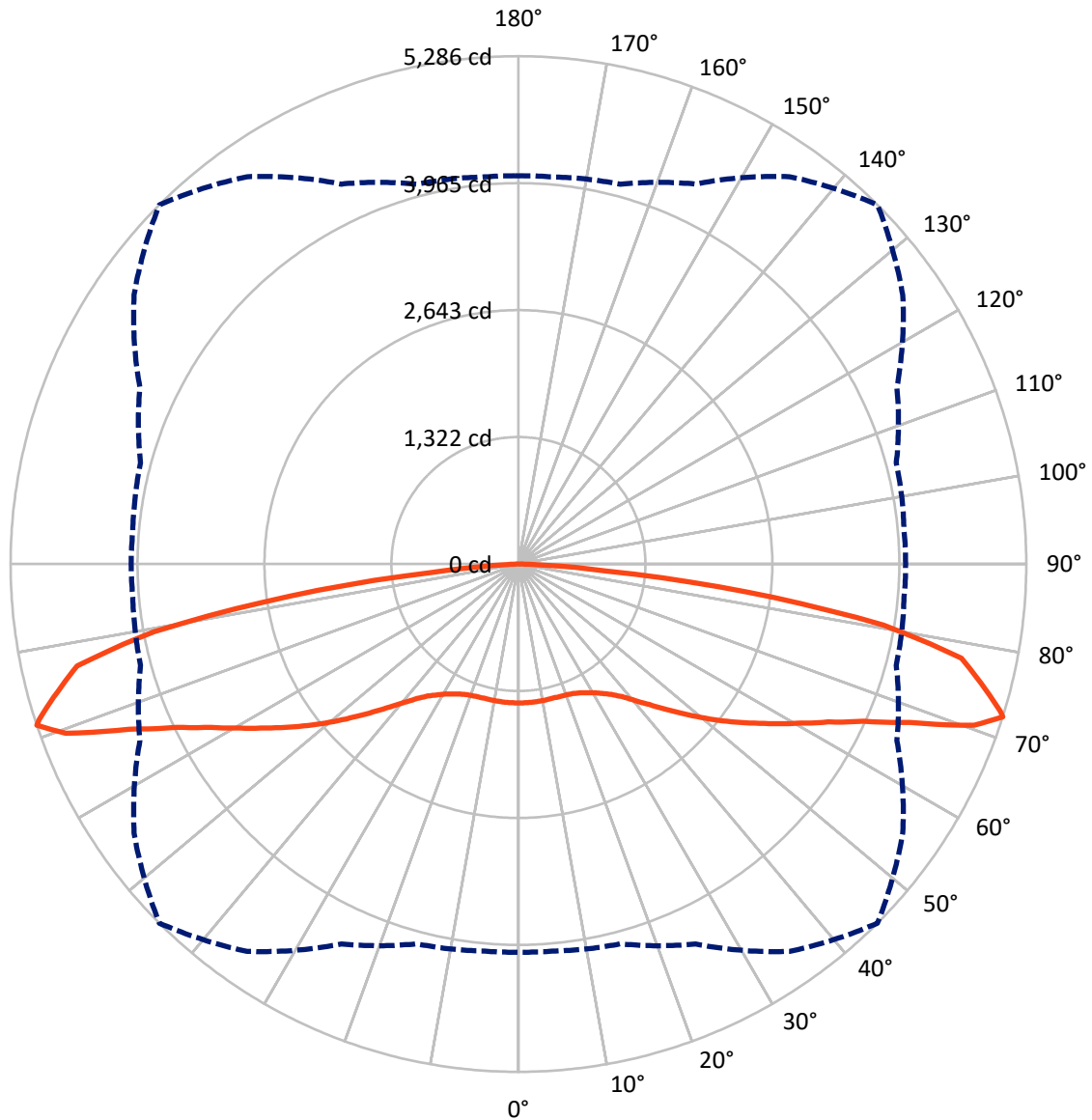
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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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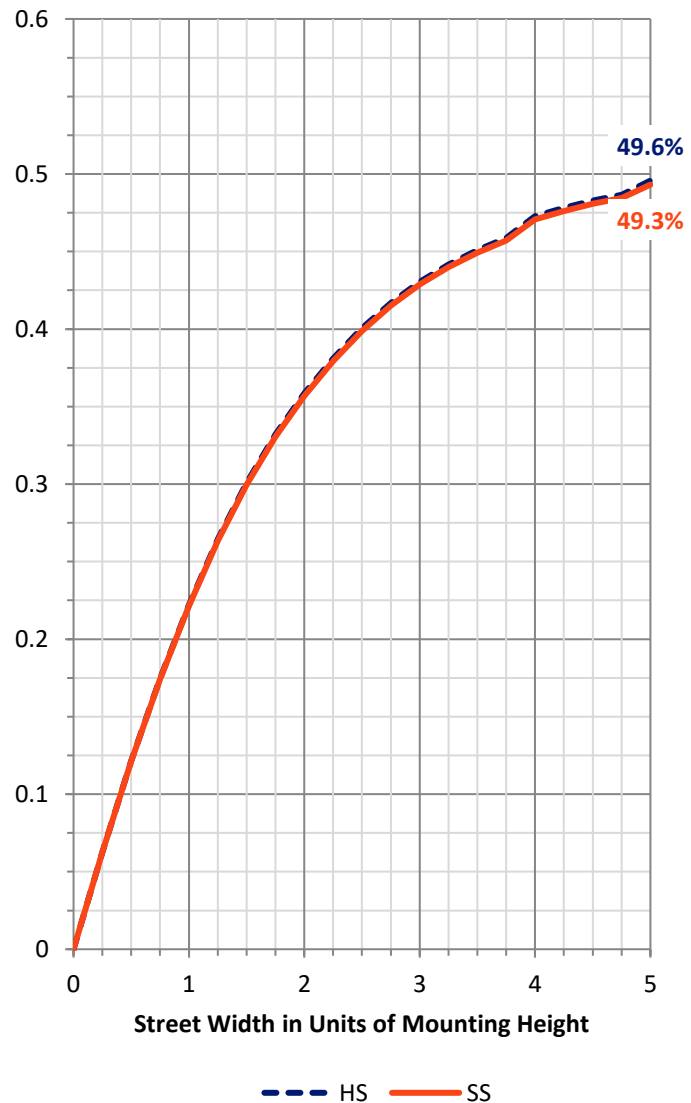
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7657.8	0.0	7657.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7657.8	0.0	7657.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	15315.7	0.0	15315.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.0	0.9
10°-20°	410.1	2.7
20°-30°	688.8	4.5
30°-40°	1048.4	6.8
40°-50°	1657.3	10.8
50°-60°	2531.3	16.5
60°-70°	3708.4	24.2
70°-80°	4213.1	27.5
80°-90°	920.3	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°	15315.7	100.0
0°-180°	15315.7	100.0



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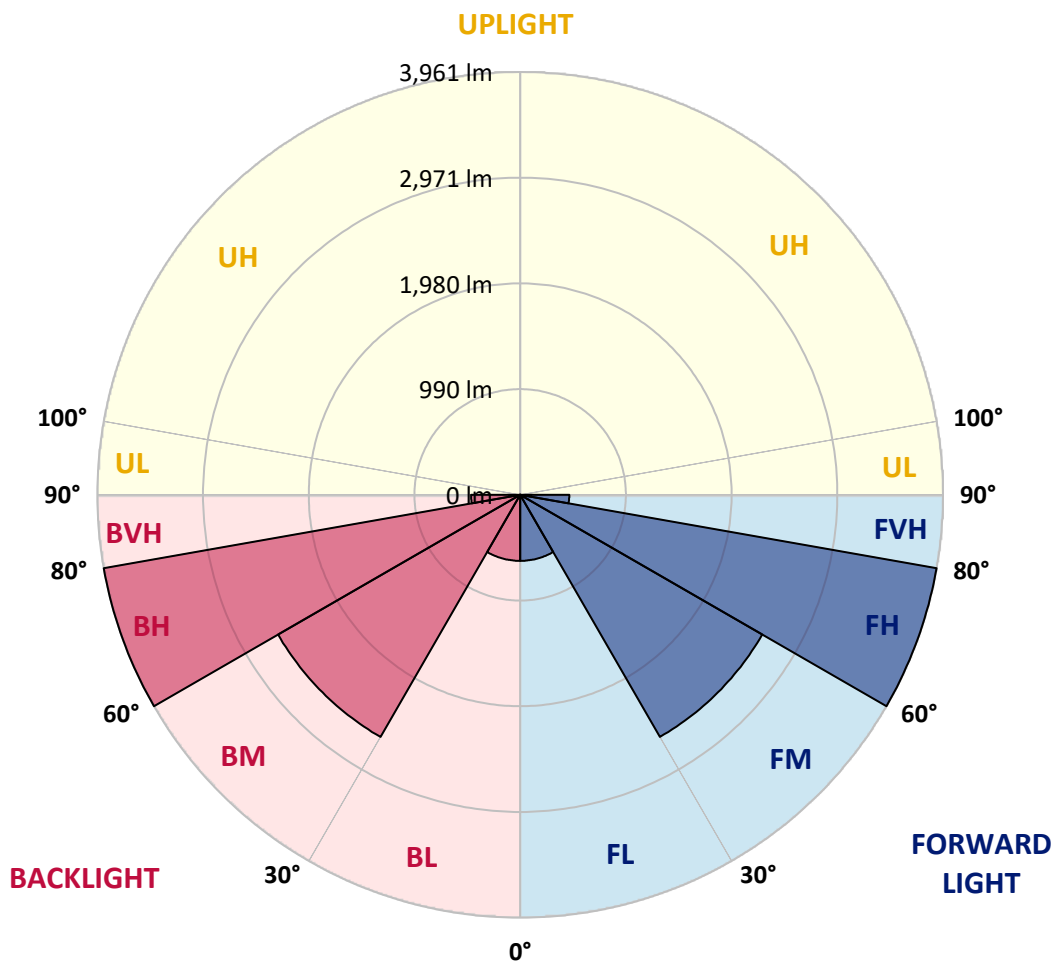
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	618.4	4.0			
FM	(30°-60°)	2618.5	17.1			
FH	(60°-80°)	3960.8	25.9			G2/5000
FVH	(80°-90°)	460.1	3.0			G3/500
BL	(0°-30°)	618.4	4.0	B2/1000		
BM	(30°-60°)	2618.5	17.1	B3/5000		
BH	(60°-80°)	3960.8	25.9	B4/5000		G2/5000
BVH	(80°-90°)	460.1	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°	1446.3	1446.3	1446.3	1446.3	1446.3	1446.3	1446.3	1446.3	1446.3	1446.3	1446.3
2.5°	1449.3	1448.8	1447.8	1446.8	1446.3	1445.9	1445.9	1445.9	1445.6	1445.4	1445.6
5°	1449.3	1448.8	1448.0	1447.3	1446.6	1445.8	1445.8	1445.9	1445.6	1445.4	1445.9
7.5°	1447.3	1447.8	1447.0	1446.3	1446.0	1445.8	1445.6	1445.3	1444.8	1444.4	1444.6
10°	1447.8	1449.8	1448.3	1446.8	1446.4	1445.8	1444.8	1443.8	1443.6	1443.4	1442.8
12.5°	1448.8	1450.8	1449.1	1447.3	1446.6	1445.8	1444.8	1443.8	1443.1	1442.4	1441.6
15°	1451.8	1453.3	1451.8	1450.3	1448.8	1447.3	1446.3	1445.4	1443.8	1442.4	1441.6
17.5°	1453.8	1456.2	1454.5	1452.8	1451.0	1449.3	1448.3	1447.3	1446.3	1445.4	1444.1
20°	1457.2	1459.7	1458.2	1456.7	1455.7	1454.8	1454.0	1453.2	1452.5	1451.8	1450.0
22.5°	1463.6	1465.6	1465.2	1464.6	1464.9	1465.2	1465.4	1465.6	1465.2	1464.6	1462.9
25°	1477.0	1477.0	1478.0	1479.0	1480.5	1482.0	1483.2	1484.4	1485.2	1486.0	1483.7
27.5°	1500.4	1502.2	1503.0	1503.8	1506.2	1508.8	1511.5	1514.2	1515.7	1517.2	1514.9
30°	1530.6	1530.6	1532.3	1534.0	1538.2	1542.4	1545.9	1549.4	1552.1	1554.8	1553.1
32.5°	1569.2	1571.6	1574.1	1576.6	1581.8	1587.0	1592.9	1598.8	1602.3	1605.8	1603.1
35°	1628.1	1631.1	1633.5	1636.0	1641.5	1647.0	1653.6	1660.3	1663.3	1666.2	1664.5
37.5°	1711.3	1711.3	1714.8	1718.2	1721.7	1725.2	1734.1	1743.0	1746.7	1750.4	1747.5
40°	1823.8	1824.2	1825.0	1825.7	1829.0	1832.2	1843.1	1854.0	1860.4	1866.8	1860.6
42.5°	1953.0	1958.4	1958.2	1958.0	1960.2	1962.4	1972.8	1983.2	1992.4	2001.6	1997.9
45°	2105.6	2104.6	2102.6	2100.6	2107.3	2114.0	2128.8	2143.7	2151.9	2160.0	2152.4
47.5°	2259.6	2258.1	2255.4	2252.7	2259.4	2266.0	2288.4	2310.6	2322.3	2334.0	2321.5
50°	2413.2	2419.1	2415.6	2412.2	2422.1	2432.0	2460.2	2488.4	2505.5	2522.6	2508.3
52.5°	2583.1	2587.5	2583.6	2579.6	2593.2	2606.8	2640.3	2673.7	2696.5	2719.3	2700.0
55°	2758.9	2753.4	2755.7	2758.0	2770.8	2783.7	2824.8	2865.9	2893.2	2920.4	2898.6
57.5°	2923.4	2925.3	2923.1	2920.8	2941.2	2961.5	3013.3	3065.0	3099.2	3133.4	3106.1
60°	3091.8	3092.2	3087.3	3082.4	3104.4	3126.4	3200.7	3275.0	3319.4	3363.7	3326.3
62.5°	3280.0	3279.4	3270.8	3262.1	3288.2	3314.2	3406.3	3498.4	3559.3	3620.2	3574.7
65°	3510.8	3504.8	3499.9	3495.0	3524.9	3554.9	3669.3	3783.7	3866.0	3948.2	3889.5
67.5°	3851.1	3846.6	3836.2	3825.8	3859.2	3892.6	4039.3	4185.9	4292.2	4398.4	4320.9
70°	4225.6	4217.1	4224.3	4231.4	4308.8	4386.0	4582.7	4779.3	4905.1	5030.9	4900.6
72°	4040.8	4044.2	4068.3	4092.3	4227.8	4363.2	4642.6	4922.0	5104.0	5286.0	5084.6
72.5°	3976.4	3979.4	4006.6	4033.8	4163.1	4292.4	4580.4	4868.4	5056.9	5245.4	5038.3
75°	3703.0	3710.9	3742.3	3773.8	3904.8	4035.8	4326.3	4616.8	4797.4	4978.0	4770.6
77.5°	3256.7	3281.4	3313.4	3345.4	3501.4	3657.4	3985.8	4314.2	4513.6	4713.0	4477.7
80°	2485.5	2476.6	2531.5	2586.5	2735.6	2884.7	3138.8	3392.9	3622.5	3852.1	3587.6
82.5°	965.8	987.2	1101.1	1215.0	1371.3	1527.6	1755.2	1982.8	2189.5	2396.4	2176.2
85°	99.6	113.4	154.3	195.2	280.4	365.6	504.2	642.9	778.9	914.8	767.2
87.5°	40.2	44.0	56.7	69.3	72.6	75.8	91.6	107.4	106.7	106.0	104.5
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°	1446.3	1446.3	1446.3	1446.3	1446.3	1446.3	1446.3	1446.3
2.5°	1445.9	1446.3	1446.8	1446.8	1446.8	1447.6	1448.3	1447.3
5°	1446.4	1446.6	1446.8	1446.8	1446.8	1447.6	1448.3	1447.3
7.5°	1444.9	1444.9	1444.9	1445.6	1446.3	1446.6	1446.8	1446.3
10°	1442.4	1442.6	1442.9	1443.6	1444.4	1445.1	1445.8	1446.3
12.5°	1440.9	1441.1	1441.4	1442.1	1442.9	1443.6	1444.3	1445.3
15°	1440.8	1441.1	1441.4	1441.9	1442.4	1443.3	1444.3	1445.3
17.5°	1442.8	1442.4	1441.9	1442.4	1442.9	1444.1	1445.3	1446.3
20°	1448.3	1447.6	1446.8	1446.8	1446.9	1448.1	1449.3	1449.3
22.5°	1461.2	1458.7	1456.2	1455.7	1455.2	1455.5	1455.7	1456.2
25°	1481.5	1477.5	1473.6	1472.3	1471.1	1470.6	1470.1	1471.1
27.5°	1512.7	1508.2	1503.8	1501.0	1498.3	1496.8	1495.4	1495.9
30°	1551.3	1546.1	1541.0	1536.5	1532.0	1530.0	1528.0	1528.5
32.5°	1600.4	1594.2	1588.0	1582.0	1576.1	1573.4	1570.6	1571.1
35°	1662.8	1655.6	1648.4	1643.4	1638.5	1634.3	1630.1	1633.5
37.5°	1744.5	1737.8	1731.2	1727.9	1724.6	1721.0	1717.2	1717.8
40°	1854.4	1847.5	1840.6	1837.9	1835.2	1830.4	1825.8	1826.7
42.5°	1994.2	1983.7	1973.3	1968.4	1963.4	1961.2	1959.0	1960.5
45°	2144.7	2134.3	2123.9	2119.7	2115.5	2109.6	2103.6	2109.1
47.5°	2309.1	2296.0	2282.9	2275.5	2268.0	2270.0	2272.0	2267.6
50°	2494.0	2471.9	2449.8	2441.2	2432.5	2432.5	2432.5	2432.0
52.5°	2680.6	2650.2	2619.8	2612.3	2604.9	2603.1	2601.4	2599.4
55°	2876.8	2839.4	2802.0	2788.1	2774.3	2776.3	2778.2	2783.7
57.5°	3078.8	3029.6	2980.3	2964.4	2948.6	2949.9	2951.1	2960.0
60°	3288.9	3225.2	3161.6	3144.0	3126.4	3131.2	3135.9	3141.3
62.5°	3529.2	3452.1	3375.0	3351.5	3328.0	3334.0	3339.9	3354.3
65°	3830.8	3734.7	3638.6	3614.1	3589.6	3592.3	3595.0	3619.8
67.5°	4243.4	4115.3	3987.3	3964.8	3942.2	3946.2	3950.2	3990.3
70°	4770.4	4580.6	4391.0	4297.6	4204.2	4189.6	4175.0	4196.3
72°	4883.3	4615.3	4347.4	4209.7	4072.0	4050.4	4028.9	4030.9
72.5°	4831.3	4560.4	4289.5	4155.7	4022.0	4004.4	3986.8	3983.3
75°	4563.4	4298.4	4033.4	3895.2	3757.0	3723.6	3690.1	3690.1
77.5°	4242.4	3908.3	3574.2	3425.1	3276.0	3241.1	3206.2	3178.9
80°	3323.0	3023.6	2724.2	2572.9	2421.6	2365.6	2309.6	2276.5
82.5°	1956.0	1680.6	1405.2	1213.0	1020.8	963.1	905.4	825.2
85°	619.7	476.8	333.8	260.5	187.2	151.3	115.4	101.0
87.5°	103.0	83.7	64.4	62.1	60.0	47.1	34.2	28.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)