

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: P144271

Luminaire Tested: **LDRL-5XQ-E06-E-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P144271
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-7050
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (126) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19037 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U0 - G4

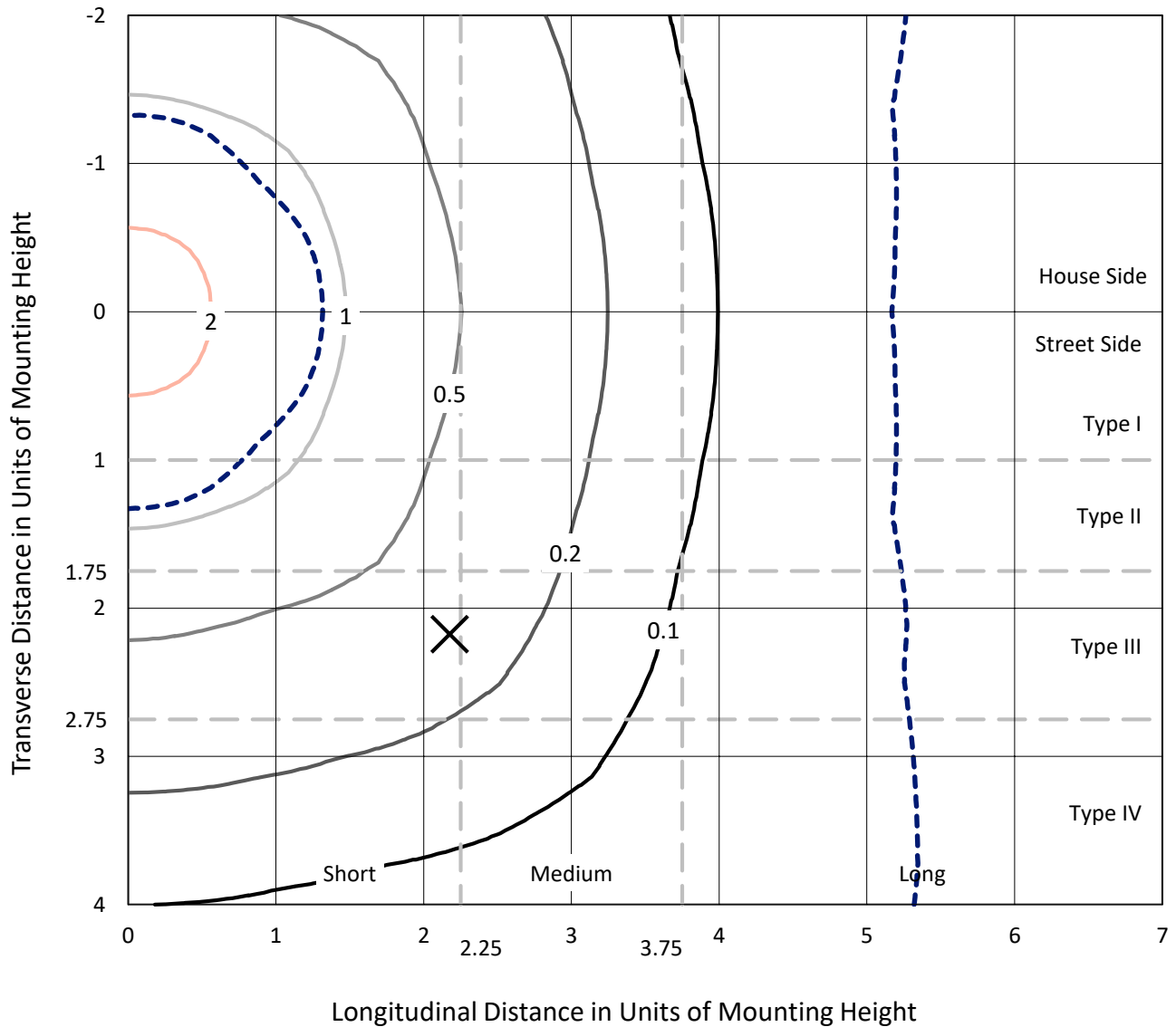
Input Watts (W): 150.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P144271
 CATALOG NUMBER: LDRL-5XQ-E06-E-7050

Iso-Footcandle Lines of Horizontal Illumination

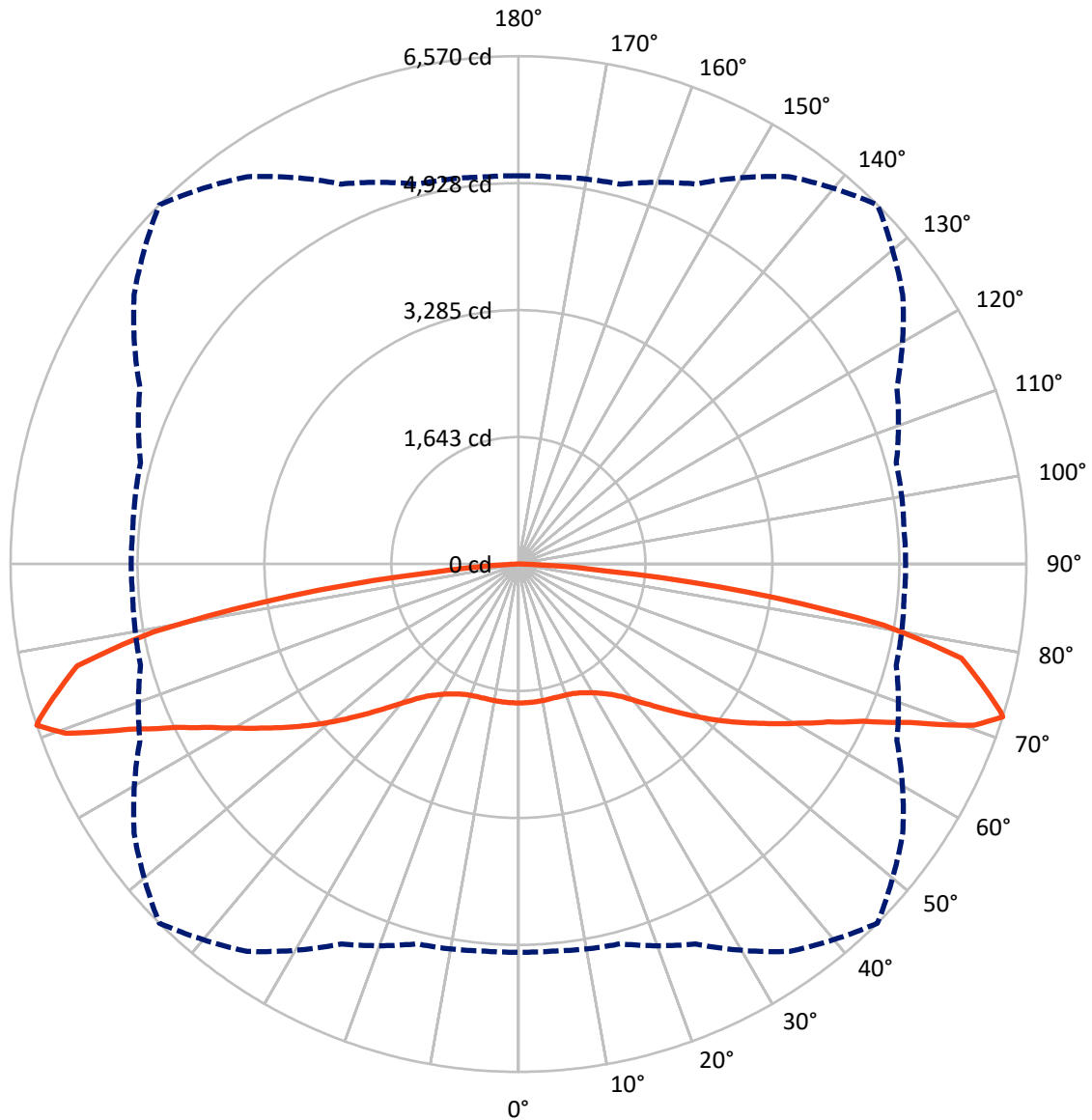
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P144271
CATALOG NUMBER: LDRL-5XQ-E06-E-7050

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: LDRL-5XQ-E06-E-7050

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9518.5	0.0	9518.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9518.5	0.0	9518.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19037.0	0.0	19037.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.6	0.9
10°-20°	509.7	2.7
20°-30°	856.2	4.5
30°-40°	1303.1	6.8
40°-50°	2060.0	10.8
50°-60°	3146.4	16.5
60°-70°	4609.5	24.2
70°-80°	5236.7	27.5
80°-90°	1143.9	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°	19037.0	100.0
0°-180°	19037.0	100.0

Coefficient of Utilization



REPORT NUMBER: P144271

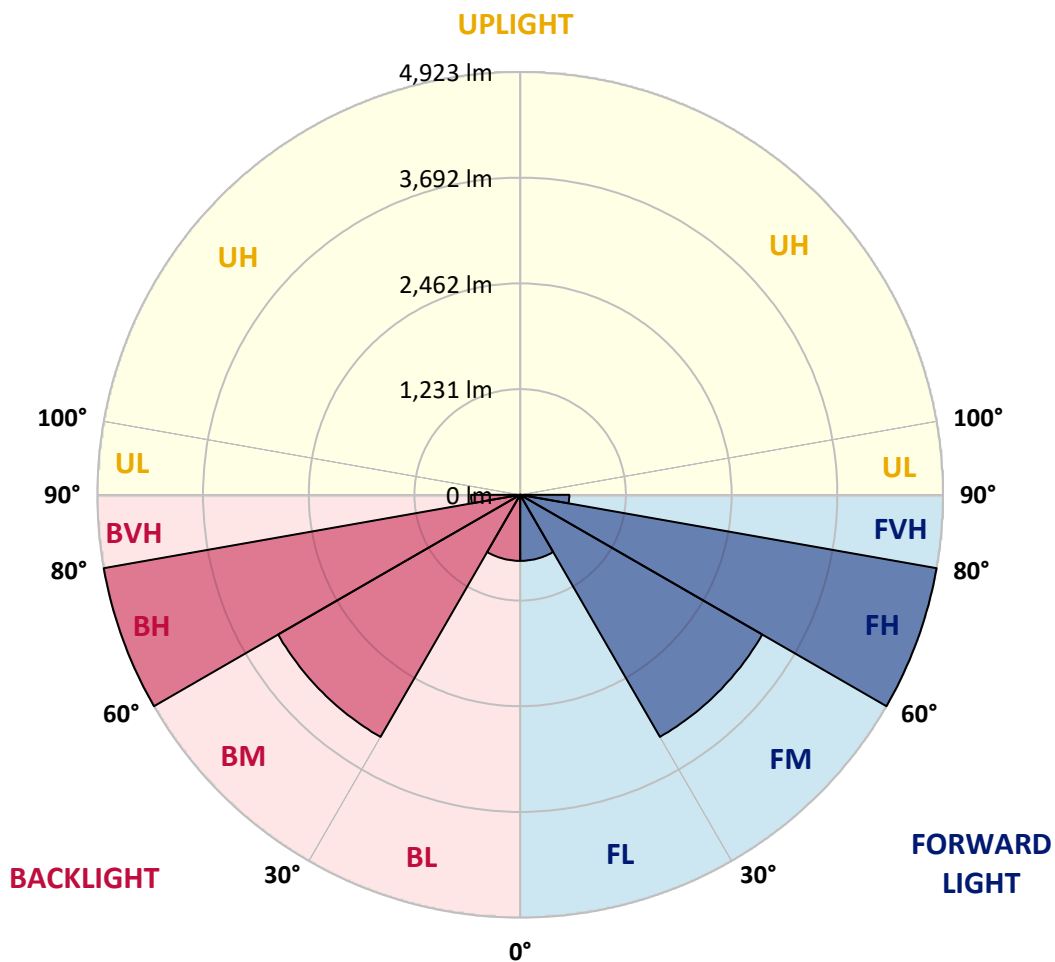
CATALOG NUMBER: LDRL-5XQ-E06-E-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	768.7	4.0			
FM	(30°-60°)	3254.7	17.1			
FH	(60°-80°)	4923.1	25.9			G2/5000
FVH	(80°-90°)	571.9	3.0			G4/750
BL	(0°-30°)	768.7	4.0	B2/1000		
BM	(30°-60°)	3254.7	17.1	B3/5000		
BH	(60°-80°)	4923.1	25.9	B4/5000		G2/5000
BVH	(80°-90°)	571.9	3.0			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type V Short





REPORT NUMBER: P144271

CATALOG NUMBER: LDRL-5XQ-E06-E-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1797.7	1797.7	1797.7	1797.7	1797.7	1797.7	1797.7	1797.7	1797.7	1797.7	1797.7
2.5°	1801.4	1800.8	1799.6	1798.4	1797.7	1797.1	1797.1	1797.1	1796.8	1796.5	1796.8
5°	1801.4	1800.8	1799.9	1799.0	1798.0	1797.2	1797.2	1797.2	1796.8	1796.5	1797.1
7.5°	1799.0	1799.6	1798.6	1797.7	1797.4	1797.2	1796.8	1796.5	1795.9	1795.3	1795.6
10°	1799.6	1802.0	1800.2	1798.4	1797.8	1797.2	1795.9	1794.6	1794.4	1794.0	1793.4
12.5°	1800.8	1803.3	1801.2	1799.0	1798.1	1797.2	1795.9	1794.6	1793.7	1792.8	1791.9
15°	1804.5	1806.4	1804.5	1802.6	1800.8	1799.0	1797.8	1796.5	1794.6	1792.8	1791.9
17.5°	1807.0	1810.0	1807.9	1805.8	1803.6	1801.4	1800.2	1799.0	1797.7	1796.5	1795.0
20°	1811.3	1814.4	1812.5	1810.7	1809.4	1808.2	1807.3	1806.4	1805.4	1804.5	1802.4
22.5°	1819.3	1821.8	1821.1	1820.5	1820.8	1821.1	1821.4	1821.8	1821.1	1820.5	1818.4
25°	1835.9	1835.9	1837.2	1838.4	1840.2	1842.0	1843.6	1845.2	1846.1	1847.0	1844.2
27.5°	1864.8	1867.3	1868.2	1869.2	1872.2	1875.3	1878.7	1882.0	1883.9	1885.8	1883.0
30°	1902.4	1902.4	1904.6	1906.7	1912.0	1917.2	1921.5	1925.8	1929.2	1932.6	1930.4
32.5°	1950.4	1953.5	1956.6	1959.6	1966.1	1972.6	1980.0	1987.4	1991.7	1996.0	1992.6
35°	2023.7	2027.4	2030.5	2033.6	2040.3	2047.0	2055.4	2063.7	2067.4	2071.1	2069.0
37.5°	2127.1	2127.2	2131.5	2135.8	2140.0	2144.4	2155.4	2166.5	2171.1	2175.8	2172.0
40°	2266.8	2267.4	2268.4	2269.4	2273.4	2277.4	2290.9	2304.4	2312.4	2320.4	2312.7
42.5°	2427.6	2434.4	2434.0	2433.7	2436.5	2439.2	2452.2	2465.1	2476.5	2487.9	2483.3
45°	2617.2	2616.0	2613.5	2611.0	2619.3	2627.6	2646.1	2664.6	2674.8	2684.9	2675.4
47.5°	2808.6	2806.8	2803.4	2800.0	2808.3	2816.6	2844.4	2872.0	2886.5	2901.0	2885.6
50°	2999.5	3006.9	3002.6	2998.2	3010.6	3022.9	3058.0	3093.0	3114.3	3135.6	3117.7
52.5°	3210.6	3216.2	3211.3	3206.4	3223.3	3240.2	3281.8	3323.4	3351.7	3380.0	3356.0
55°	3429.2	3422.4	3425.2	3428.0	3444.0	3460.0	3511.2	3562.2	3596.1	3630.0	3602.8
57.5°	3633.6	3636.1	3633.3	3630.6	3655.8	3681.0	3745.4	3809.7	3852.2	3894.6	3860.8
60°	3843.0	3843.6	3837.4	3831.2	3858.7	3886.1	3978.4	4070.8	4125.9	4181.0	4134.5
62.5°	4076.9	4076.4	4065.6	4054.8	4087.1	4119.4	4233.9	4348.4	4424.1	4499.8	4443.2
65°	4363.8	4356.4	4350.3	4344.2	4381.4	4418.6	4560.8	4703.0	4805.2	4907.4	4834.5
67.5°	4786.8	4781.2	4768.3	4755.4	4797.0	4838.5	5020.8	5203.0	5335.0	5467.1	5370.7
70°	5252.2	5241.8	5250.7	5259.6	5355.6	5451.7	5696.1	5940.5	6096.9	6253.3	6091.4
72°	5022.6	5026.9	5056.8	5086.6	5255.0	5423.4	5770.6	6117.8	6344.1	6570.4	6320.1
72.5°	4942.5	4946.2	4980.1	5014.0	5174.6	5335.4	5693.4	6051.4	6285.6	6519.8	6262.5
75°	4602.7	4612.6	4651.6	4690.8	4853.6	5016.4	5377.5	5738.6	5963.0	6187.4	5929.8
77.5°	4048.0	4078.8	4118.5	4158.2	4352.1	4546.0	4954.2	5362.4	5610.2	5858.0	5565.6
80°	3089.4	3078.4	3146.7	3215.0	3400.3	3585.6	3901.5	4217.3	4502.7	4788.0	4459.2
82.5°	1200.6	1227.0	1368.6	1510.2	1704.4	1898.7	2181.6	2464.5	2721.5	2978.6	2704.9
85°	123.8	141.0	191.8	242.6	348.5	454.4	626.8	799.2	968.1	1137.1	953.6
87.5°	49.9	54.8	70.5	86.2	90.2	94.2	113.9	133.6	132.7	131.8	129.9
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: P144271

CATALOG NUMBER: LDRL-5XQ-E06-E-7050

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1797.7	1797.7	1797.7	1797.7	1797.7	1797.7	1797.7	1797.7
2.5°	1797.2	1797.8	1798.4	1798.4	1798.4	1799.3	1800.2	1799.0
5°	1797.7	1798.0	1798.4	1798.4	1798.4	1799.3	1800.2	1799.0
7.5°	1795.9	1795.9	1795.8	1796.8	1797.7	1798.0	1798.4	1797.7
10°	1792.8	1793.1	1793.4	1794.3	1795.2	1796.2	1797.1	1797.7
12.5°	1791.0	1791.2	1791.6	1792.5	1793.4	1794.4	1795.3	1796.5
15°	1791.0	1791.3	1791.6	1792.2	1792.8	1794.0	1795.2	1796.5
17.5°	1793.4	1792.8	1792.2	1792.8	1793.4	1795.0	1796.5	1797.7
20°	1800.2	1799.3	1798.4	1798.4	1798.4	1799.9	1801.4	1801.4
22.5°	1816.2	1813.1	1810.0	1809.4	1808.8	1809.1	1809.4	1810.0
25°	1841.4	1836.5	1831.6	1830.0	1828.5	1827.9	1827.3	1828.5
27.5°	1880.2	1874.7	1869.2	1865.8	1862.4	1860.5	1858.6	1859.3
30°	1928.2	1921.8	1915.3	1909.8	1904.2	1901.8	1899.3	1899.9
32.5°	1989.2	1981.5	1973.8	1966.4	1959.0	1955.7	1952.3	1952.9
35°	2066.8	2057.9	2049.0	2042.8	2036.6	2031.4	2026.2	2030.5
37.5°	2168.4	2160.0	2151.8	2147.8	2143.8	2139.1	2134.5	2135.1
40°	2305.0	2296.4	2287.8	2284.4	2281.0	2275.2	2269.4	2270.6
42.5°	2478.6	2465.7	2452.8	2446.6	2440.4	2437.7	2435.0	2436.8
45°	2665.8	2652.9	2640.0	2634.7	2629.5	2622.1	2614.7	2621.5
47.5°	2870.2	2853.9	2837.6	2828.4	2819.1	2821.6	2824.0	2818.5
50°	3099.9	3072.5	3045.1	3034.3	3023.5	3023.5	3023.5	3022.9
52.5°	3332.0	3294.1	3256.2	3247.0	3237.8	3235.6	3233.5	3231.0
55°	3575.8	3529.3	3482.8	3465.6	3448.3	3450.8	3453.2	3460.0
57.5°	3827.0	3765.7	3704.4	3684.8	3665.0	3666.6	3668.2	3679.2
60°	4088.0	4008.9	3929.8	3907.9	3886.1	3891.9	3897.8	3904.5
62.5°	4386.6	4290.9	4195.2	4165.9	4136.6	4144.0	4151.4	4169.3
65°	4761.5	4642.1	4522.6	4492.2	4461.7	4465.1	4468.5	4499.3
67.5°	5274.4	5115.2	4956.1	4928.1	4900.0	4905.0	4909.9	4959.8
70°	5929.5	5693.7	5457.8	5341.8	5225.8	5207.6	5189.4	5215.9
72°	6069.8	5736.7	5403.6	5232.5	5061.4	5034.6	5007.8	5010.3
72.5°	6005.2	5668.4	5331.6	5165.4	4999.2	4977.3	4955.5	4951.2
75°	5672.1	5342.7	5013.4	4841.6	4669.8	4628.2	4586.7	4586.7
77.5°	5273.2	4857.9	4442.6	4257.3	4072.0	4028.6	3985.2	3951.3
80°	4130.4	3758.3	3386.2	3198.1	3010.0	2940.4	2870.8	2829.6
82.5°	2431.2	2089.0	1746.6	1507.8	1268.9	1197.2	1125.4	1025.7
85°	770.2	592.6	415.0	323.8	232.7	188.1	143.4	125.6
87.5°	128.0	104.0	80.1	77.3	74.5	58.5	42.5	35.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)