

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: STREETWORKS

Report Number: P200776

Luminaire Tested: **VERD-M-A03-E-U-T5-7050-AP**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200776
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26225)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-A03-E-U-T5-7050-AP
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K LEDS AND TYPE V OPTICS, GREY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22275 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B5 - U0 - G4

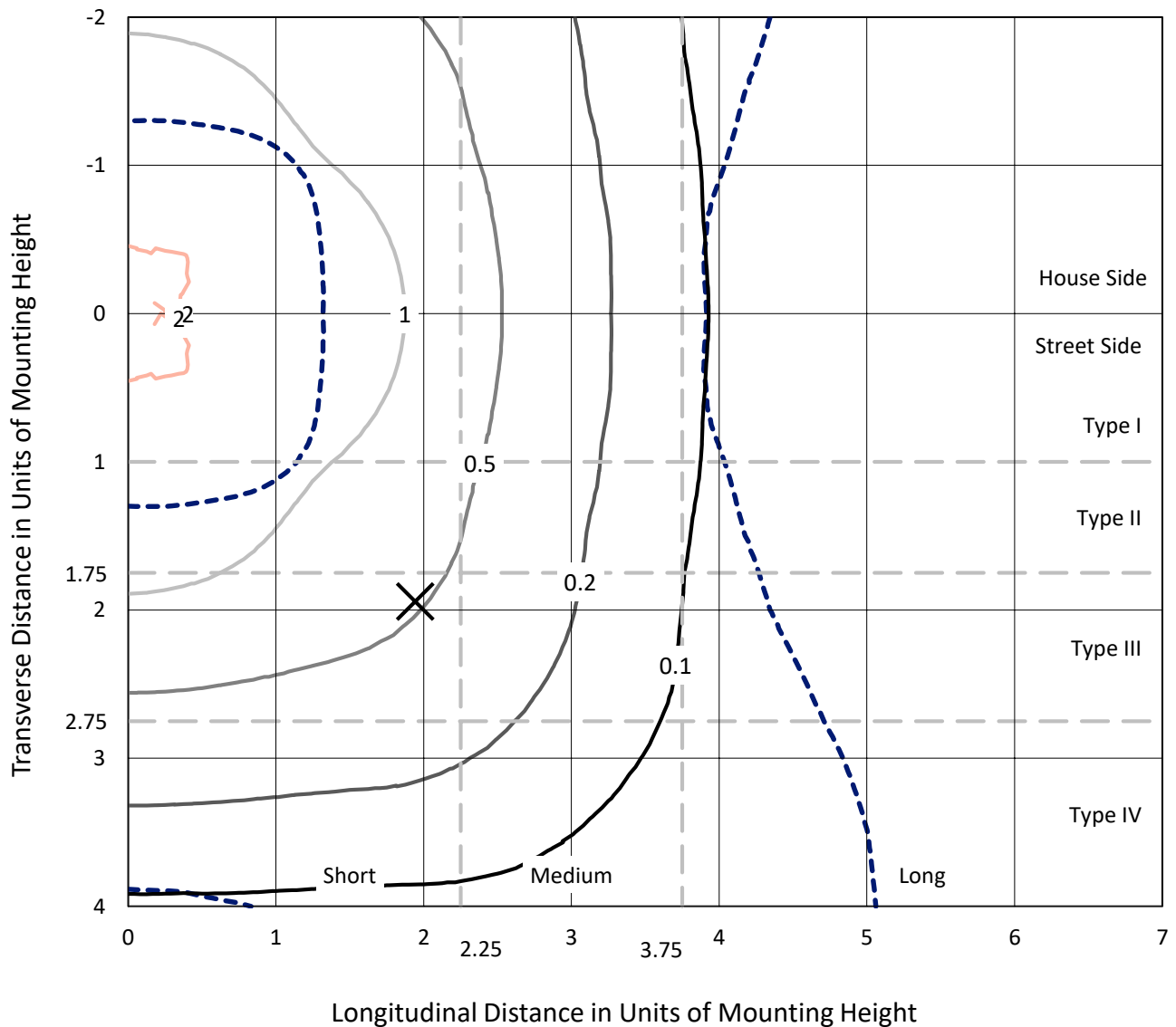
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

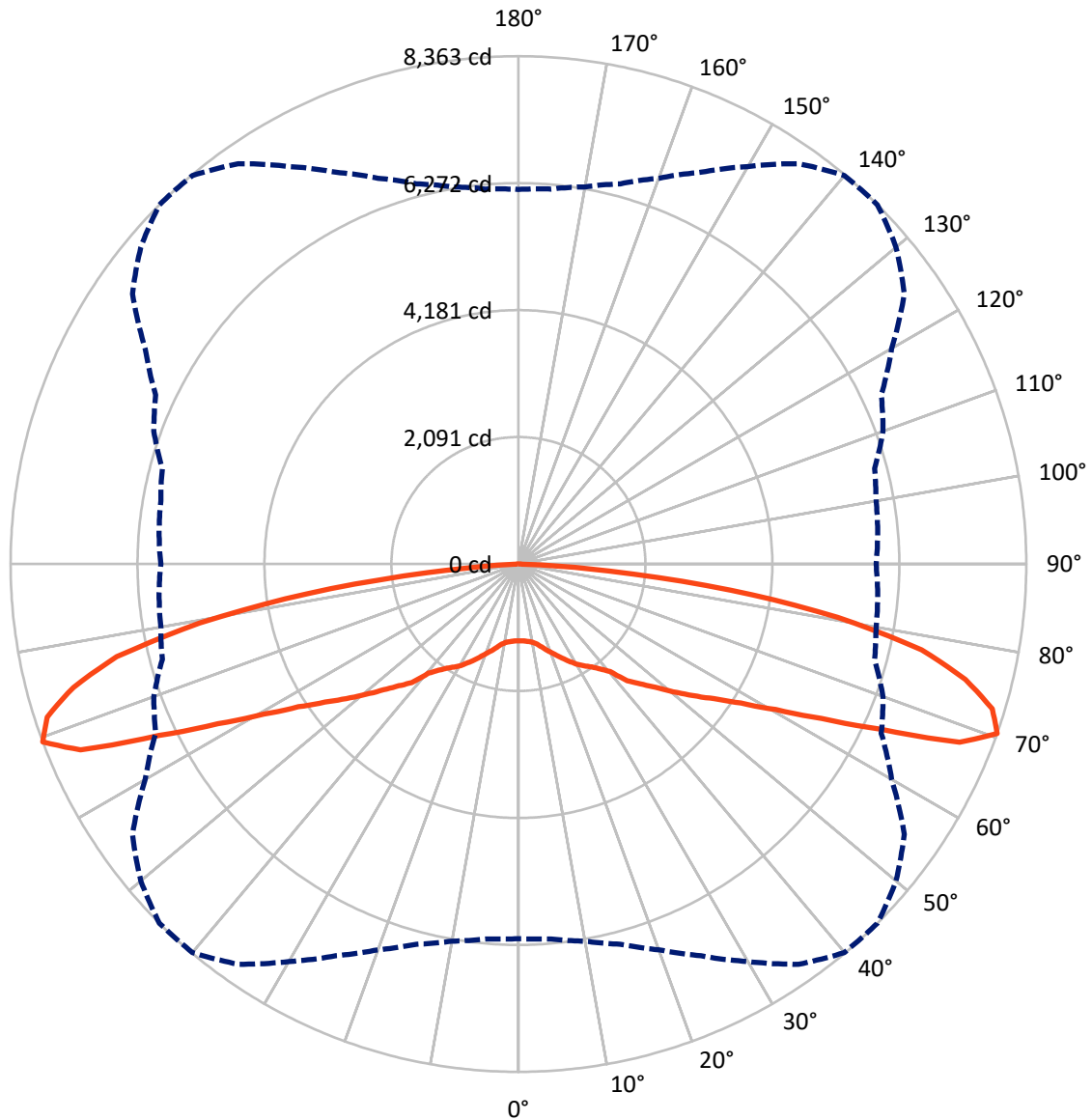
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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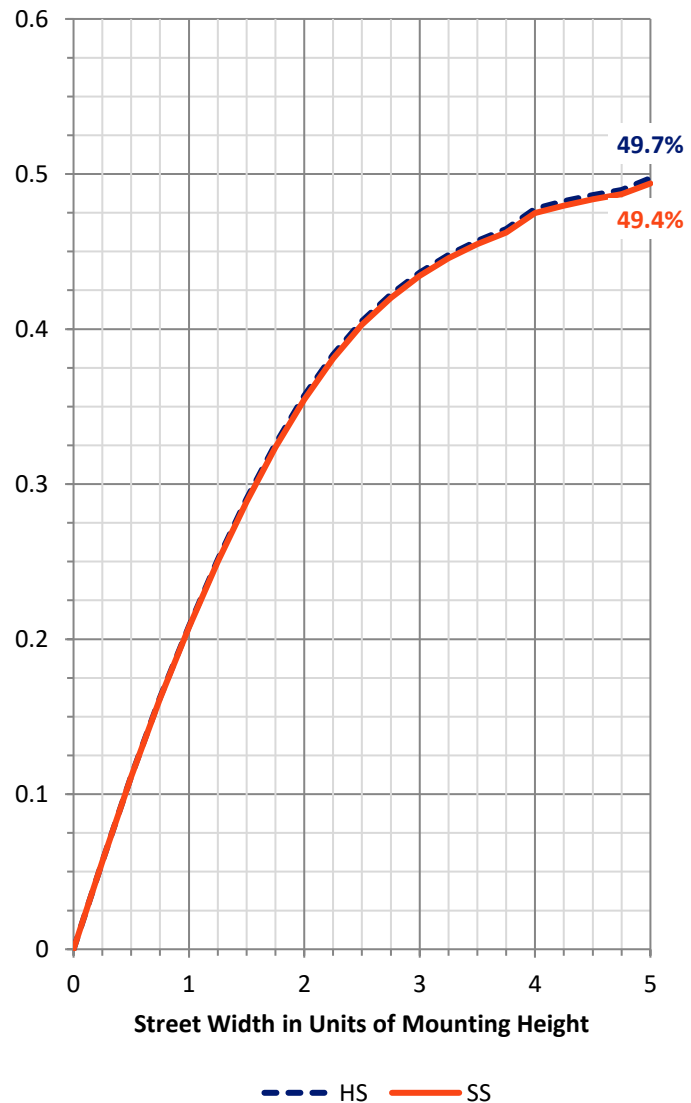
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11137.5	0.0	11137.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11137.5	0.0	11137.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	22275.0	0.0	22275.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.3	0.6
10°-20°	403.7	1.8
20°-30°	783.3	3.5
30°-40°	1309.4	5.9
40°-50°	2280.1	10.2
50°-60°	3887.4	17.5
60°-70°	6404.3	28.8
70°-80°	5860.2	26.3
80°-90°	1223.2	5.5
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°	22275.0	100.0
0°-180°	22275.0	100.0



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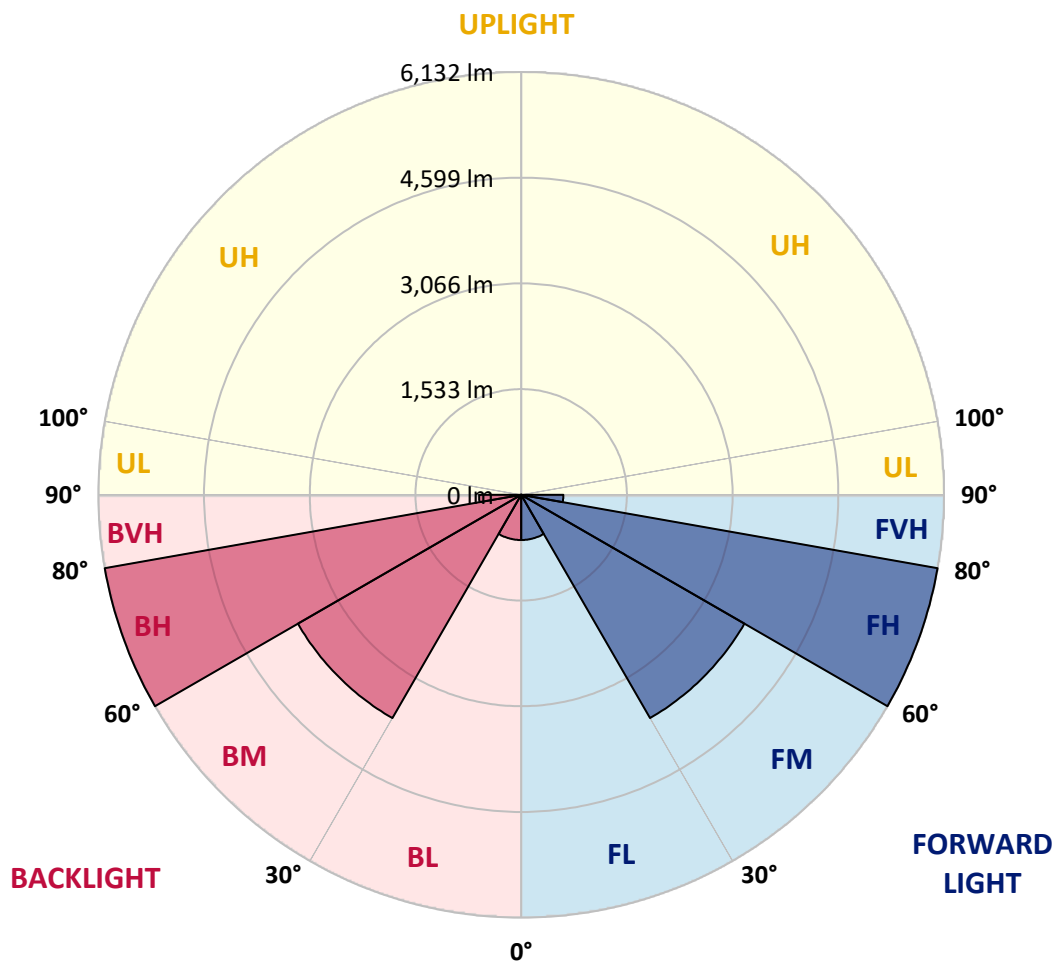
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	655.2	2.9			
FM (30°-60°)	3738.5	16.8			
FH (60°-80°)	6132.3	27.5			G3/7500
FVH (80°-90°)	611.6	2.7			G4/750
BL (0°-30°)	655.2	2.9	B2/1000		
BM (30°-60°)	3738.5	16.8	B3/5000		
BH (60°-80°)	6132.3	27.5	B5		G3/7500
BVH (80°-90°)	611.6	2.7			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1266.5	1266.5	1266.5	1266.5	1266.5	1266.5	1266.5	1266.5	1266.5	1266.5	1266.5
2.5°	1280.9	1280.9	1280.9	1278.0	1278.0	1270.8	1270.8	1265.0	1260.7	1265.0	1262.1
5°	1295.4	1292.5	1291.0	1288.1	1288.1	1283.8	1280.9	1275.1	1273.7	1276.6	1273.7
7.5°	1312.7	1309.8	1305.5	1302.6	1305.5	1301.1	1298.2	1291.0	1291.0	1289.6	1289.6
10°	1337.2	1332.9	1331.5	1328.6	1331.5	1322.8	1322.8	1317.0	1314.1	1311.2	1312.7
12.5°	1370.5	1367.6	1366.1	1363.2	1363.2	1360.3	1363.2	1354.6	1353.1	1353.1	1354.6
15°	1419.6	1415.2	1413.8	1410.9	1410.9	1413.8	1415.2	1410.9	1415.2	1415.2	1410.9
17.5°	1478.8	1473.0	1473.0	1470.1	1473.0	1475.9	1480.2	1480.2	1484.5	1486.0	1480.2
20°	1540.9	1535.1	1533.6	1532.2	1538.0	1540.9	1549.5	1556.7	1562.5	1558.2	1546.6
22.5°	1607.3	1601.5	1598.6	1594.3	1600.1	1607.3	1627.5	1641.9	1647.7	1641.9	1627.5
25°	1678.0	1675.2	1673.7	1666.5	1663.6	1678.0	1704.0	1722.8	1734.4	1730.0	1718.5
27.5°	1754.6	1750.3	1748.8	1740.1	1738.7	1741.6	1769.0	1806.6	1818.1	1822.5	1809.5
30°	1831.1	1826.8	1825.3	1821.0	1818.1	1818.1	1832.6	1871.6	1907.7	1919.2	1890.3
32.5°	1930.8	1925.0	1923.5	1914.9	1912.0	1913.4	1922.1	1940.9	1979.9	2000.1	1964.0
35°	2053.5	2047.7	2037.6	2033.3	2026.1	2027.5	2033.3	2050.6	2069.4	2081.0	2062.2
37.5°	2183.5	2177.7	2171.9	2166.2	2156.0	2156.0	2158.9	2171.9	2189.3	2192.1	2177.7
40°	2371.2	2372.7	2349.6	2342.3	2322.1	2317.8	2319.2	2325.0	2335.1	2327.9	2330.8
42.5°	2688.9	2665.8	2644.1	2636.9	2616.7	2610.9	2608.0	2613.8	2619.6	2626.8	2635.5
45°	2993.6	2982.1	2953.2	2924.3	2885.3	2855.0	2817.4	2792.9	2791.4	2811.7	2814.6
47.5°	3351.8	3333.0	3289.7	3249.2	3188.6	3132.3	3068.7	3028.3	3016.7	3034.1	3035.5
50°	3759.0	3737.3	3686.8	3634.8	3556.8	3486.1	3387.9	3324.3	3299.8	3305.5	3302.7
52.5°	4176.3	4154.7	4092.6	4047.8	3966.9	3871.6	3753.2	3656.5	3607.4	3597.3	3582.8
55°	4650.0	4626.9	4561.9	4512.8	4413.2	4312.1	4161.9	4037.7	3958.3	3915.0	3904.9
57.5°	5142.4	5115.0	5064.5	4985.0	4911.4	4780.0	4644.2	4494.0	4381.4	4317.9	4302.0
60°	5647.9	5624.8	5572.8	5530.9	5455.8	5360.5	5204.5	5054.4	4931.6	4868.1	4830.5
62.5°	6195.2	6180.8	6141.8	6114.3	6055.1	5948.3	5871.7	5751.9	5671.0	5601.7	5554.0
65°	6795.9	6791.6	6790.2	6800.3	6787.3	6735.3	6699.2	6618.3	6590.9	6557.7	6486.9
67.5°	6700.6	6725.2	6800.3	6898.5	7035.7	7188.7	7386.6	7548.3	7715.8	7832.8	7681.2
70°	6167.8	6198.1	6306.4	6481.1	6759.8	7118.0	7558.4	8046.5	8351.2	8362.8	8117.3
72.5°	5500.6	5528.0	5617.6	5868.8	6185.1	6726.6	7455.9	8003.2	8199.6	8160.6	7906.5
75°	4456.5	4514.3	4758.3	5008.1	5442.8	6029.1	6881.1	7461.7	7718.7	7604.6	7285.5
77.5°	3201.6	3200.1	3372.0	3743.1	4157.6	4859.4	5747.5	6505.7	6826.3	6787.3	6537.4
80°	1734.4	1796.5	1982.8	2288.9	2717.8	3317.1	4092.6	4811.7	5206.0	5334.5	5204.5
82.5°	774.0	807.3	935.8	1185.6	1452.8	1891.8	2439.1	2985.0	3361.9	3519.3	3400.9
85°	244.1	252.7	298.9	420.2	551.6	782.7	1093.2	1438.3	1621.7	1499.0	1289.6
87.5°	59.2	62.1	76.5	119.9	176.2	245.5	222.4	187.7	134.3	67.9	41.9
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°	1266.5	1266.5	1266.5	1266.5	1266.5	1266.5	1266.5	1266.5
2.5°	1262.1	1260.7	1262.1	1263.6	1263.6	1262.1	1262.1	1265.0
5°	1275.1	1273.7	1275.1	1279.5	1278.0	1279.5	1278.0	1282.4
7.5°	1288.1	1286.7	1285.3	1289.6	1289.6	1291.0	1289.6	1292.5
10°	1311.2	1311.2	1309.8	1311.2	1308.4	1308.4	1305.5	1304.0
12.5°	1350.2	1348.8	1350.2	1345.9	1343.0	1341.6	1338.7	1334.3
15°	1408.0	1403.7	1405.1	1393.6	1392.1	1390.7	1387.8	1384.9
17.5°	1471.5	1461.4	1460.0	1447.0	1448.4	1444.1	1439.8	1439.8
20°	1538.0	1526.4	1519.2	1507.6	1506.2	1504.8	1497.5	1500.4
22.5°	1614.5	1597.2	1587.1	1577.0	1571.2	1574.1	1568.3	1571.2
25°	1701.2	1675.2	1653.5	1652.1	1650.6	1653.5	1652.1	1652.1
27.5°	1780.6	1741.6	1727.1	1734.4	1734.4	1737.3	1743.0	1741.6
30°	1842.7	1818.1	1812.3	1826.8	1826.8	1829.7	1835.5	1836.9
32.5°	1932.2	1919.2	1920.7	1939.4	1940.9	1948.1	1955.3	1961.1
35°	2046.3	2042.0	2053.5	2073.7	2079.5	2088.2	2101.2	2109.8
37.5°	2173.4	2183.5	2196.5	2219.6	2236.9	2248.5	2264.4	2273.0
40°	2355.3	2379.9	2401.5	2429.0	2443.4	2463.6	2482.4	2495.4
42.5°	2664.4	2680.3	2696.1	2719.2	2743.8	2761.1	2772.7	2781.3
45°	2852.1	2881.0	2921.4	2967.6	3013.8	3052.8	3083.2	3087.5
47.5°	3075.9	3120.7	3177.0	3249.2	3311.3	3348.9	3372.0	3385.0
50°	3344.5	3399.4	3478.8	3564.0	3634.8	3686.8	3715.7	3735.9
52.5°	3634.8	3704.1	3802.3	3907.7	3994.4	4046.4	4094.0	4117.1
55°	3964.1	4059.4	4180.7	4307.8	4403.1	4470.9	4505.6	4534.5
57.5°	4378.5	4498.4	4641.3	4767.0	4868.1	4941.7	4990.8	5015.4
60°	4927.3	5047.1	5174.2	5297.0	5411.0	5461.6	5504.9	5523.7
62.5°	5600.2	5691.2	5793.7	5881.8	5990.1	6063.8	6111.4	6125.9
65°	6482.6	6523.0	6635.6	6733.8	6733.8	6718.0	6710.7	6699.2
67.5°	7364.9	7093.4	6881.1	6777.2	6666.0	6582.2	6534.6	6505.7
70°	7757.7	7096.3	6592.3	6388.7	6071.0	5980.0	5939.6	5889.0
72.5°	7434.2	6670.3	5958.4	5783.6	5357.6	5406.7	5207.4	5123.7
75°	6751.2	6001.7	5364.8	4967.7	4758.3	4495.5	4388.6	4403.1
77.5°	6045.0	5211.8	4518.6	4117.1	3867.3	3608.8	3548.2	3549.6
80°	4681.8	3929.4	3341.7	2957.5	2658.6	2442.0	2265.8	2212.4
82.5°	2894.0	2388.5	1981.3	1714.1	1470.1	1279.5	1100.4	1077.3
85°	986.3	784.1	584.9	472.2	375.5	303.3	246.9	238.3
87.5°	26.0	26.0	26.0	26.0	26.0	27.4	27.4	27.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)