

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: P189902

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189902
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-AP
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K LEDS AND TYPE V OPTICS, GREY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22592 lumens
Efficiency: N/A
Efficacy: 124.1 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

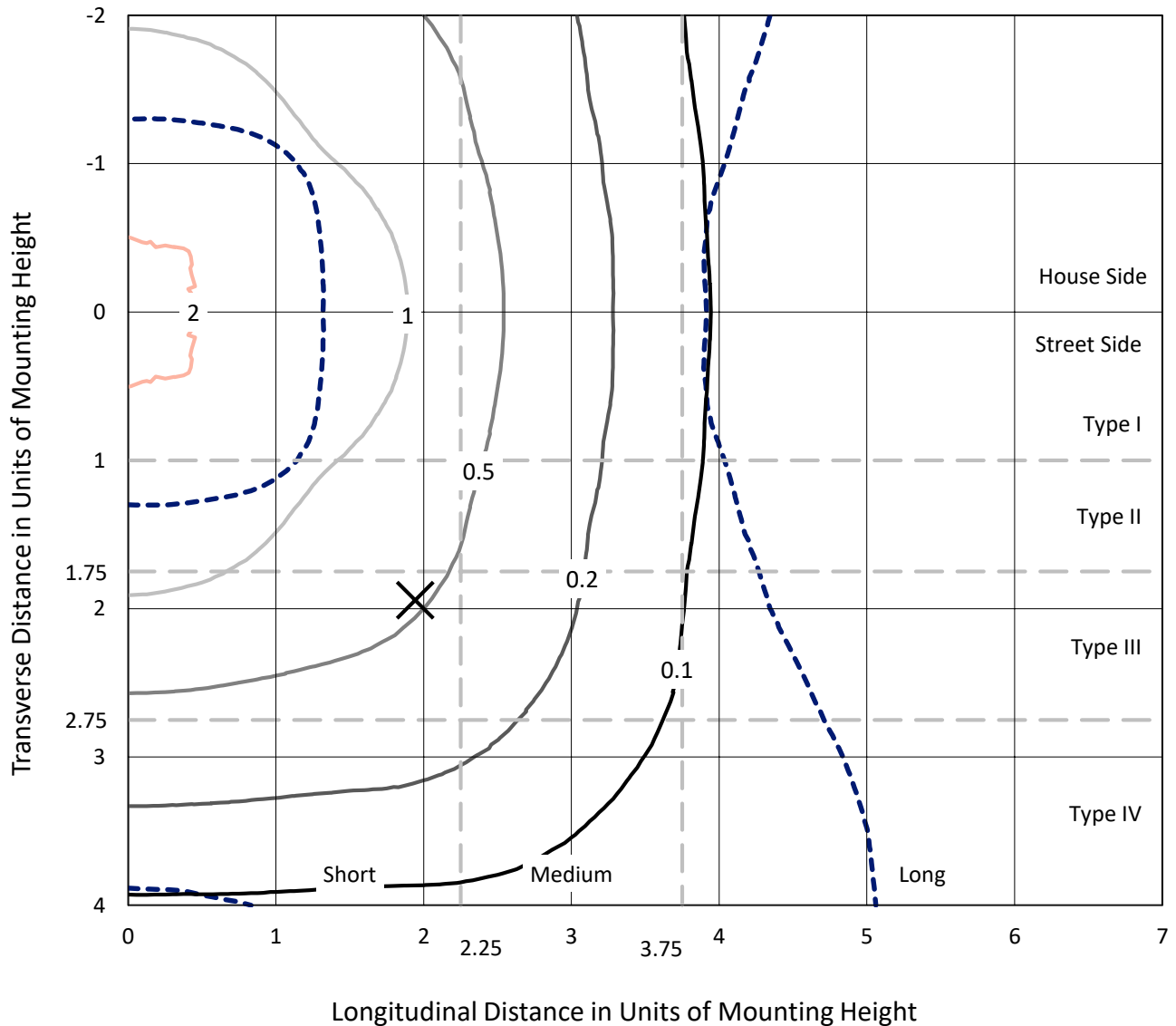


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

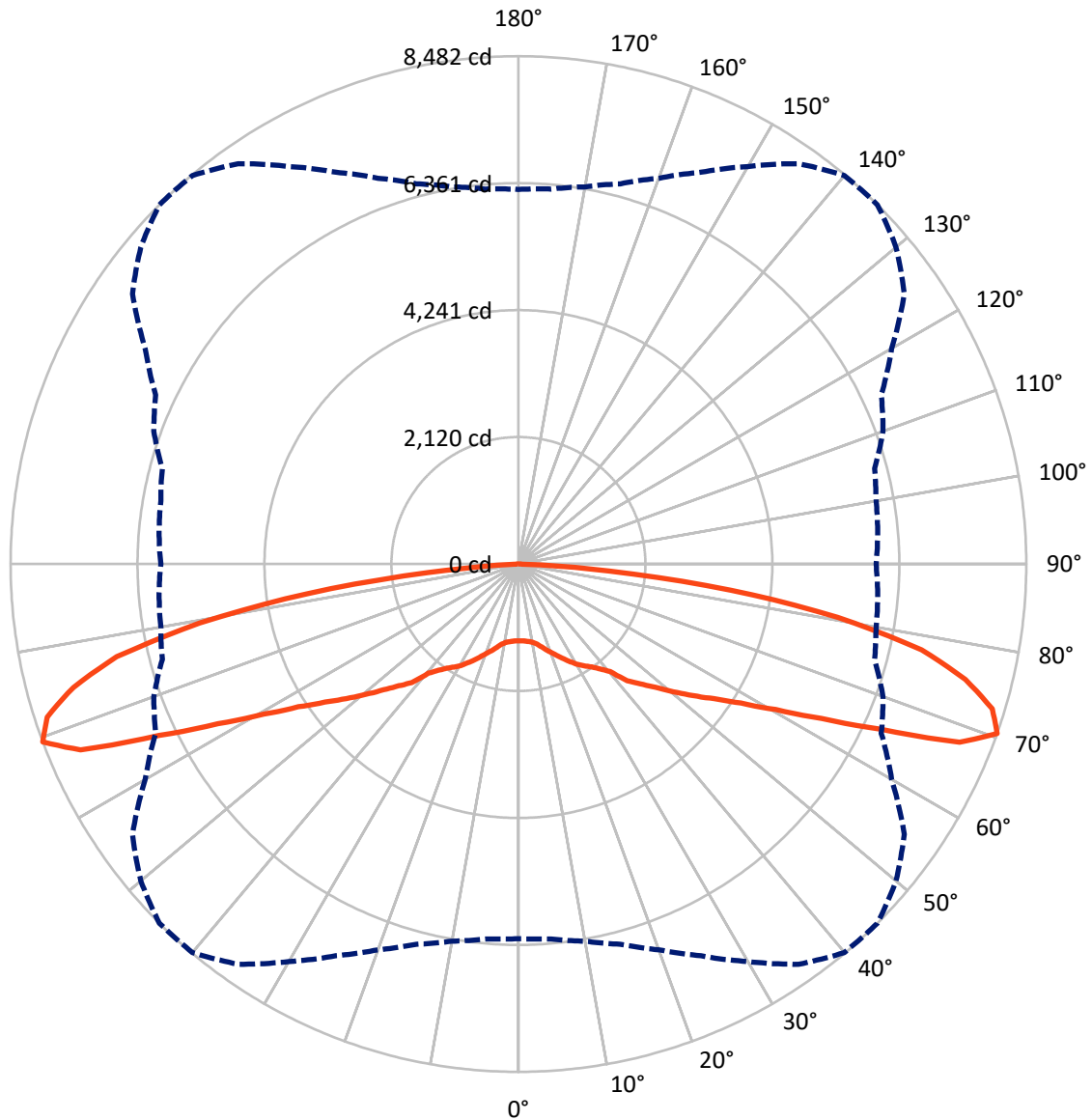


Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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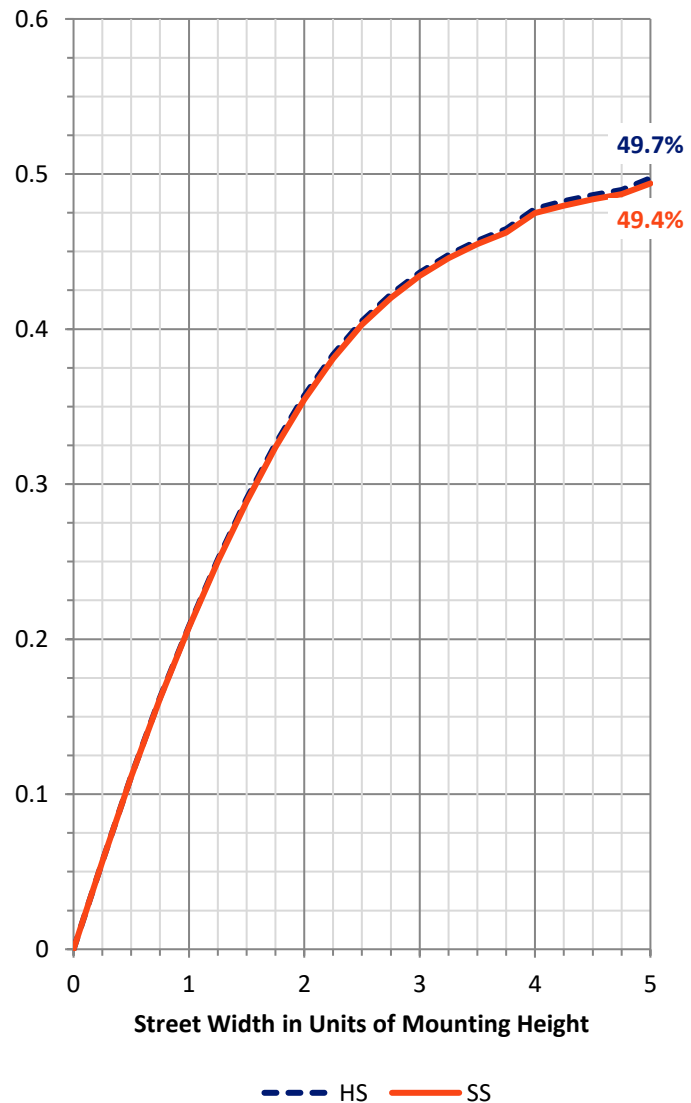
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11296.0	0.0	11296.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11296.0	0.0	11296.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	22592.0	0.0	22592.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.1	0.6
10°-20°	409.4	1.8
20°-30°	794.5	3.5
30°-40°	1328.0	5.9
40°-50°	2312.6	10.2
50°-60°	3942.7	17.5
60°-70°	6495.5	28.8
70°-80°	5943.6	26.3
80°-90°	1240.6	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°	22592.0	100.0
0°-180°	22592.0	100.0



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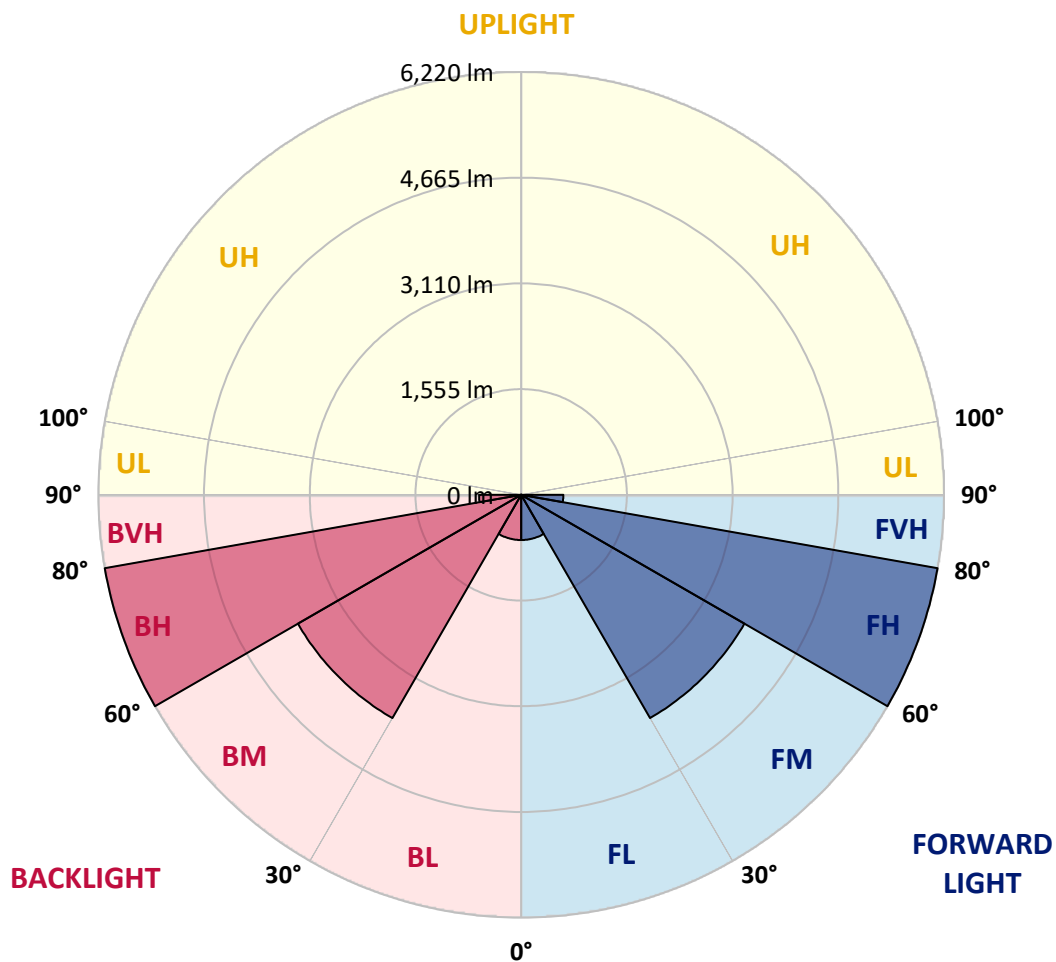
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	664.5	2.9			
FM	(30°-60°)	3791.7	16.8			
FH	(60°-80°)	6219.6	27.5			G3/7500
FVH	(80°-90°)	620.3	2.7			G4/750
BL	(0°-30°)	664.5	2.9	B2/1000		
BM	(30°-60°)	3791.7	16.8	B3/5000		
BH	(60°-80°)	6219.6	27.5	B5		G3/7500
BVH	(80°-90°)	620.3	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°	1284.5	1284.5	1284.5	1284.5	1284.5	1284.5	1284.5	1284.5	1284.5	1284.5	1284.5
2.5°	1299.1	1299.1	1299.1	1296.2	1296.2	1288.9	1288.9	1283.0	1278.6	1283.0	1280.1
5°	1313.8	1310.9	1309.4	1306.5	1306.5	1302.1	1299.1	1293.3	1291.8	1294.8	1291.8
7.5°	1331.4	1328.4	1324.0	1321.1	1324.0	1319.7	1316.7	1309.4	1309.4	1307.9	1307.9
10°	1356.3	1351.9	1350.4	1347.5	1350.4	1341.6	1341.6	1335.8	1332.8	1329.9	1331.4
12.5°	1390.0	1387.0	1385.6	1382.6	1382.6	1379.7	1382.6	1373.8	1372.4	1372.4	1373.8
15°	1439.8	1435.4	1433.9	1431.0	1431.0	1433.9	1435.4	1431.0	1435.4	1435.4	1431.0
17.5°	1499.8	1493.9	1493.9	1491.0	1493.9	1496.9	1501.3	1501.3	1505.7	1507.1	1501.3
20°	1562.8	1556.9	1555.5	1554.0	1559.9	1562.8	1571.6	1578.9	1584.8	1580.4	1568.6
22.5°	1630.2	1624.3	1621.4	1617.0	1622.8	1630.2	1650.7	1665.3	1671.2	1665.3	1650.7
25°	1701.9	1699.0	1697.5	1690.2	1687.3	1701.9	1728.3	1747.3	1759.0	1754.7	1742.9
27.5°	1779.6	1775.2	1773.7	1764.9	1763.4	1766.4	1794.2	1832.3	1844.0	1848.4	1835.2
30°	1857.2	1852.8	1851.3	1846.9	1844.0	1844.0	1858.6	1898.2	1934.8	1946.5	1917.2
32.5°	1958.2	1952.4	1950.9	1942.1	1939.2	1940.7	1949.5	1968.5	2008.0	2028.5	1991.9
35°	2082.7	2076.9	2066.6	2062.2	2054.9	2056.4	2062.2	2079.8	2098.8	2110.6	2091.5
37.5°	2214.6	2208.7	2202.8	2197.0	2186.7	2186.7	2189.7	2202.8	2220.4	2223.3	2208.7
40°	2405.0	2406.4	2383.0	2375.7	2355.2	2350.8	2352.2	2358.1	2368.3	2361.0	2363.9
42.5°	2727.2	2703.7	2681.8	2674.5	2654.0	2648.1	2645.2	2651.0	2656.9	2664.2	2673.0
45°	3036.2	3024.5	2995.2	2965.9	2926.4	2895.6	2857.5	2832.6	2831.2	2851.7	2854.6
47.5°	3399.5	3380.4	3336.5	3295.5	3234.0	3176.8	3112.4	3071.4	3059.7	3077.2	3078.7
50°	3812.5	3790.5	3739.3	3686.5	3607.4	3535.7	3436.1	3371.6	3346.7	3352.6	3349.7
52.5°	4235.8	4213.8	4150.8	4105.4	4023.4	3926.7	3806.6	3708.5	3658.7	3648.4	3633.8
55°	4716.2	4692.7	4626.8	4577.0	4476.0	4373.5	4221.1	4095.2	4014.6	3970.7	3960.4
57.5°	5215.6	5187.8	5136.5	5056.0	4981.3	4848.0	4710.3	4558.0	4443.8	4379.3	4363.2
60°	5728.3	5704.8	5652.1	5609.6	5533.5	5436.8	5278.6	5126.3	5001.8	4937.3	4899.3
62.5°	6283.4	6268.7	6229.2	6201.3	6141.3	6032.9	5955.3	5833.7	5751.7	5681.4	5633.1
65°	6892.7	6888.3	6886.8	6897.0	6883.9	6831.1	6794.5	6712.5	6684.7	6651.0	6579.2
67.5°	6796.0	6820.9	6897.0	6996.6	7135.8	7291.0	7491.7	7655.7	7825.6	7944.3	7790.5
70°	6255.5	6286.3	6396.1	6573.4	6856.0	7219.3	7666.0	8161.0	8470.1	8481.8	8232.8
72.5°	5578.9	5606.7	5697.5	5952.3	6273.1	6822.4	7562.0	8117.1	8316.3	8276.8	8019.0
75°	4519.9	4578.5	4826.0	5079.4	5520.3	6114.9	6979.1	7567.9	7828.6	7712.9	7389.2
77.5°	3247.1	3245.7	3420.0	3796.4	4216.7	4928.6	5829.3	6598.3	6923.4	6883.9	6630.5
80°	1759.0	1822.0	2011.0	2321.5	2756.5	3364.3	4150.8	4880.2	5280.1	5410.4	5278.6
82.5°	785.1	818.7	949.1	1202.5	1473.4	1918.7	2473.8	3027.4	3409.7	3569.4	3449.3
85°	247.5	256.3	303.2	426.2	559.5	793.8	1108.7	1458.8	1644.8	1520.3	1307.9
87.5°	60.1	63.0	77.6	121.6	178.7	249.0	225.6	190.4	136.2	68.8	42.5
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°	1284.5	1284.5	1284.5	1284.5	1284.5	1284.5	1284.5	1284.5
2.5°	1280.1	1278.6	1280.1	1281.6	1281.6	1280.1	1280.1	1283.0
5°	1293.3	1291.8	1293.3	1297.7	1296.2	1297.7	1296.2	1300.6
7.5°	1306.5	1305.0	1303.5	1307.9	1307.9	1309.4	1307.9	1310.9
10°	1329.9	1329.9	1328.4	1329.9	1327.0	1327.0	1324.0	1322.6
12.5°	1369.5	1368.0	1369.5	1365.1	1362.1	1360.7	1357.7	1353.3
15°	1428.0	1423.6	1425.1	1413.4	1411.9	1410.5	1407.5	1404.6
17.5°	1492.5	1482.2	1480.8	1467.6	1469.0	1464.7	1460.3	1460.3
20°	1559.9	1548.1	1540.8	1529.1	1527.6	1526.2	1518.8	1521.8
22.5°	1637.5	1619.9	1609.7	1599.4	1593.5	1596.5	1590.6	1593.5
25°	1725.4	1699.0	1677.0	1675.6	1674.1	1677.0	1675.6	1675.6
27.5°	1805.9	1766.4	1751.7	1759.0	1759.0	1762.0	1767.8	1766.4
30°	1868.9	1844.0	1838.1	1852.8	1852.8	1855.7	1861.6	1863.0
32.5°	1959.7	1946.5	1948.0	1967.0	1968.5	1975.8	1983.1	1989.0
35°	2075.4	2071.0	2082.7	2103.2	2109.1	2117.9	2131.1	2139.9
37.5°	2204.3	2214.6	2227.7	2251.2	2268.7	2280.5	2296.6	2305.4
40°	2388.8	2413.7	2435.7	2463.5	2478.2	2498.7	2517.7	2530.9
42.5°	2702.3	2718.4	2734.5	2757.9	2782.8	2800.4	2812.1	2820.9
45°	2892.7	2922.0	2963.0	3009.9	3056.7	3096.3	3127.0	3131.4
47.5°	3119.7	3165.1	3222.2	3295.5	3358.4	3396.5	3420.0	3433.1
50°	3392.1	3447.8	3528.3	3614.8	3686.5	3739.3	3768.6	3789.1
52.5°	3686.5	3756.8	3856.4	3963.4	4051.2	4104.0	4152.3	4175.7
55°	4020.5	4117.1	4240.2	4369.1	4465.7	4534.6	4569.7	4599.0
57.5°	4440.8	4562.4	4707.4	4834.8	4937.3	5012.0	5061.8	5086.7
60°	4997.4	5119.0	5247.9	5372.3	5488.1	5539.3	5583.3	5602.3
62.5°	5679.9	5772.2	5876.2	5965.5	6075.4	6150.1	6198.4	6213.1
65°	6574.8	6615.8	6730.1	6829.7	6829.7	6813.6	6806.2	6794.5
67.5°	7469.7	7194.4	6979.1	6873.6	6760.8	6675.9	6627.6	6598.3
70°	7868.1	7197.3	6686.1	6479.6	6157.4	6065.1	6024.1	5972.9
72.5°	7540.0	6765.2	6043.2	5865.9	5433.9	5483.7	5281.5	5196.6
75°	6847.3	6087.1	5441.2	5038.4	4826.0	4559.5	4451.1	4465.7
77.5°	6131.0	5285.9	4582.9	4175.7	3922.3	3660.2	3598.7	3600.1
80°	4748.4	3985.3	3389.2	2999.6	2696.4	2476.7	2298.0	2243.8
82.5°	2935.2	2422.5	2009.5	1738.5	1491.0	1297.7	1116.1	1092.6
85°	1000.4	795.3	593.2	478.9	380.8	307.6	250.5	241.7
87.5°	26.4	26.4	26.4	26.4	26.4	27.8	27.8	27.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)