

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: P191820

Luminaire Tested: **GAN-AF-02-LED-U-RW-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191820
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-RW-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13657 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 129
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

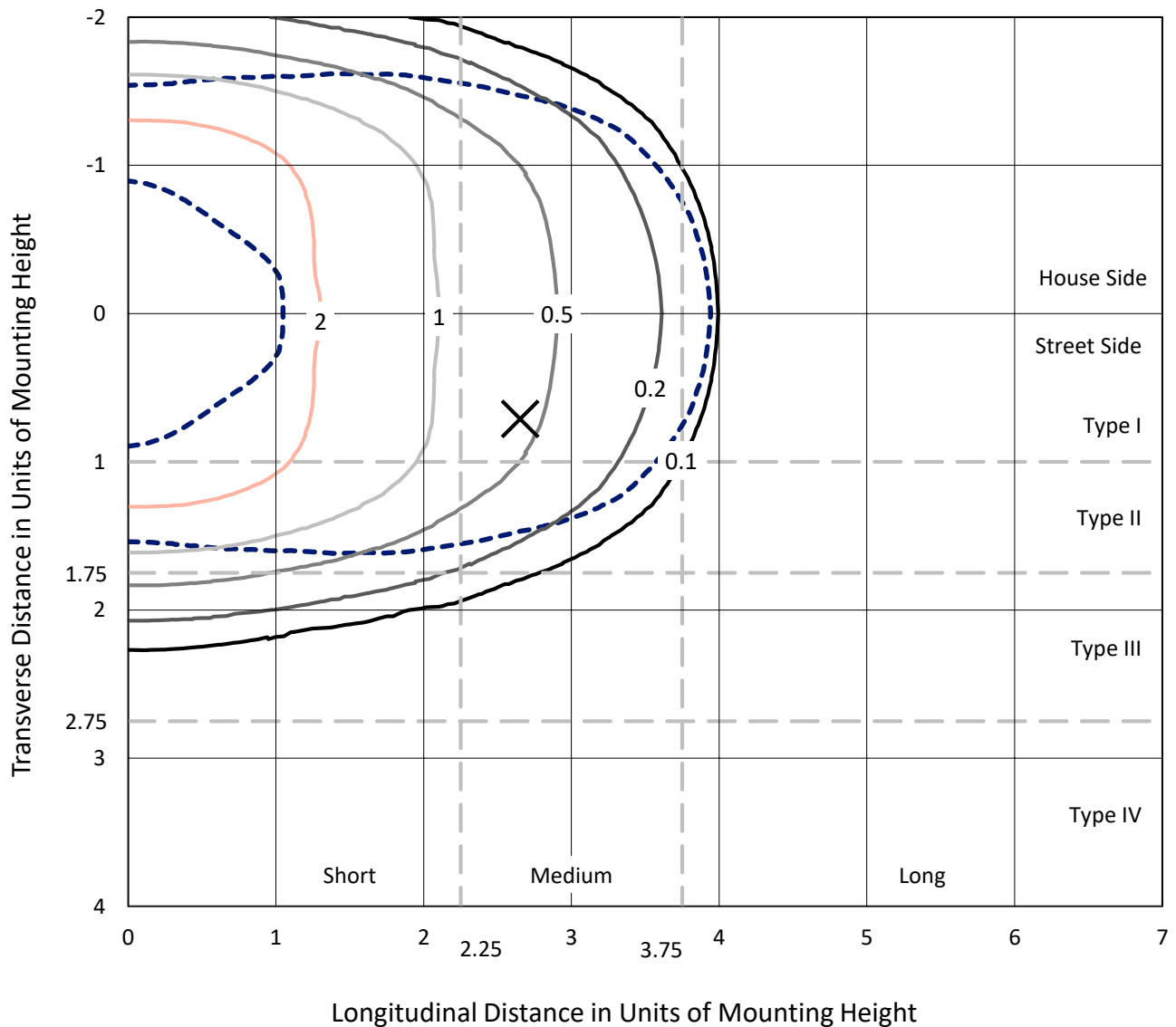


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

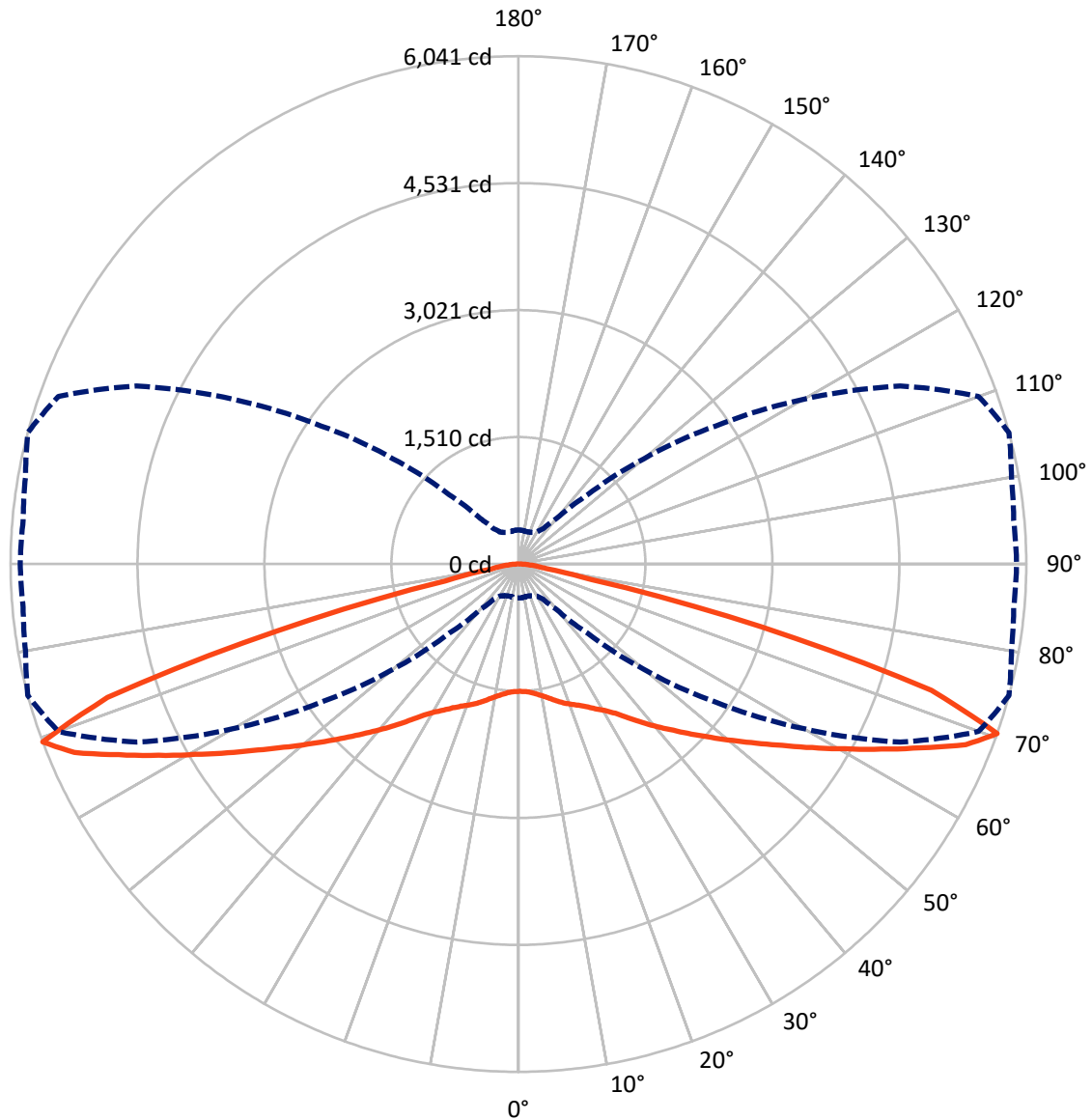


Based on 20 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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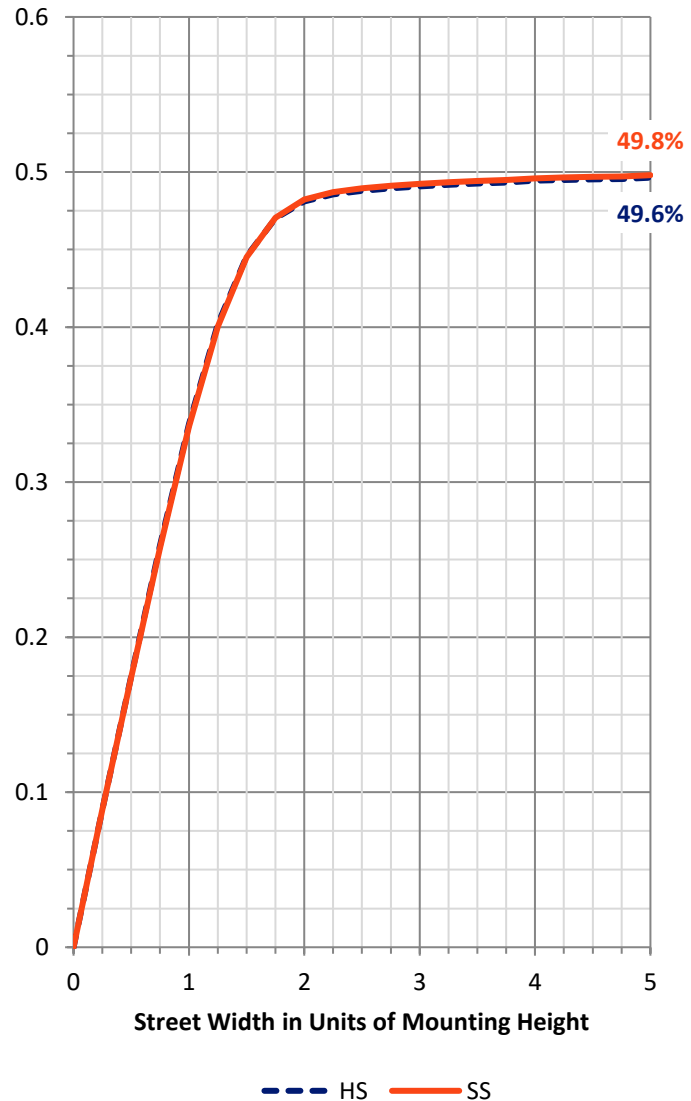
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6828.5	0.0	6828.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6828.5	0.0	6828.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13657.0	0.0	13657.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.3	1.1
10°-20°	451.4	3.3
20°-30°	849.7	6.2
30°-40°	1504.6	11.0
40°-50°	2516.2	18.4
50°-60°	3506.3	25.7
60°-70°	3251.5	23.8
70°-80°	1295.8	9.5
80°-90°	136.2	1.0
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°	13657.0	100.0
0°-180°	13657.0	100.0



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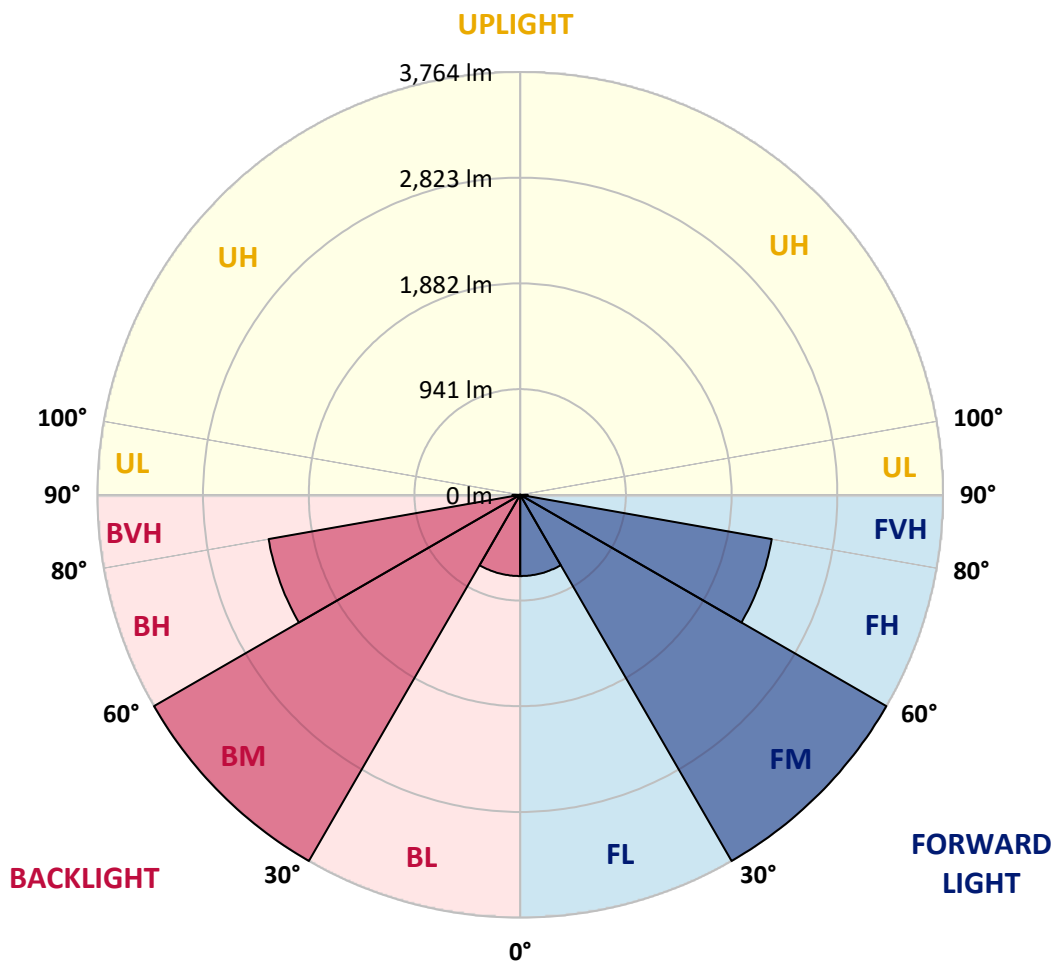
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	723.2	5.3			
FM	(30°-60°)	3763.5	27.6			
FH	(60°-80°)	2273.7	16.6			G2/5000
FVH	(80°-90°)	68.1	0.5			G1/100
BL	(0°-30°)	723.2	5.3	B2/1000		
BM	(30°-60°)	3763.5	27.6	B3/5000		
BH	(60°-80°)	2273.7	16.6	B3/2500		G2/5000
BVH	(80°-90°)	68.1	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1514.9	1514.9	1514.9	1514.9	1514.9	1514.9	1514.9	1514.9	1514.9	1514.9	1514.9
2.5°	1512.3	1511.0	1512.3	1511.7	1512.9	1512.9	1514.2	1516.8	1516.8	1518.8	1518.1
5°	1497.5	1496.8	1498.7	1500.7	1502.6	1506.5	1510.4	1516.2	1520.7	1523.9	1527.1
7.5°	1468.4	1468.4	1471.0	1475.5	1480.0	1488.4	1497.5	1509.1	1520.7	1530.4	1538.8
10°	1444.5	1445.8	1449.0	1456.8	1464.5	1477.4	1489.7	1506.5	1522.6	1538.8	1551.7
12.5°	1430.3	1432.3	1438.1	1449.7	1462.6	1480.0	1498.7	1520.0	1538.1	1557.5	1570.4
15°	1434.8	1436.1	1444.5	1458.7	1475.5	1497.5	1522.6	1547.8	1569.1	1589.8	1607.2
17.5°	1460.0	1462.0	1471.6	1487.8	1505.2	1531.0	1558.1	1586.5	1613.0	1636.2	1657.5
20°	1505.2	1507.1	1519.4	1536.8	1557.5	1583.9	1611.1	1640.7	1670.4	1695.0	1718.8
22.5°	1569.1	1572.3	1583.9	1601.4	1624.6	1653.0	1685.3	1716.9	1745.3	1767.9	1789.2
25°	1653.0	1660.1	1671.1	1690.4	1715.0	1740.8	1775.6	1807.9	1835.0	1856.3	1871.8
27.5°	1771.8	1781.5	1789.8	1808.6	1832.4	1857.0	1891.8	1920.2	1946.0	1966.7	1978.3
30°	1929.3	1938.9	1947.3	1965.4	1987.4	2010.6	2043.5	2068.7	2084.8	2101.0	2100.3
32.5°	2120.3	2130.6	2133.9	2153.2	2175.8	2201.0	2230.7	2244.9	2257.8	2259.7	2248.1
35°	2334.0	2339.1	2352.0	2377.9	2403.7	2424.3	2452.7	2459.8	2459.8	2450.1	2424.3
37.5°	2568.3	2571.5	2589.6	2618.6	2645.1	2666.4	2685.7	2699.9	2692.8	2672.2	2628.9
40°	2825.2	2831.0	2856.8	2882.6	2912.3	2932.3	2953.0	2955.5	2948.4	2918.1	2859.4
42.5°	3070.4	3075.6	3101.4	3142.1	3180.8	3208.5	3227.9	3231.8	3209.2	3181.4	3108.5
45°	3281.5	3295.0	3328.6	3376.4	3432.5	3471.9	3498.4	3509.3	3489.3	3453.2	3368.6
47.5°	3448.7	3462.2	3510.0	3566.8	3636.5	3700.4	3744.3	3767.5	3762.3	3735.2	3642.9
50°	3571.3	3584.2	3635.8	3705.5	3786.9	3866.3	3941.1	3996.6	4016.0	4003.7	3919.2
52.5°	3585.5	3606.8	3667.5	3761.1	3866.9	3975.3	4081.8	4176.1	4240.0	4249.7	4187.1
55°	3387.3	3408.6	3492.5	3631.3	3788.8	3965.7	4136.1	4294.8	4420.7	4485.3	4452.3
57.5°	2920.0	2958.1	3046.5	3209.2	3440.9	3705.5	3977.3	4259.3	4515.6	4686.6	4719.6
60°	2237.8	2283.0	2372.0	2545.0	2803.2	3118.8	3481.6	3898.5	4351.0	4735.7	4965.5
62.5°	1435.5	1478.1	1571.7	1722.1	1932.5	2274.6	2663.8	3158.8	3766.9	4374.2	4921.6
65°	737.8	761.0	810.0	901.1	1065.0	1320.6	1669.8	2163.6	2858.7	3608.1	4399.4
67.5°	467.3	471.8	482.8	495.7	537.7	626.1	788.7	1096.6	1668.5	2450.1	3376.4
70°	404.1	404.1	398.9	397.0	402.1	414.4	439.6	511.2	704.2	1163.1	1947.3
72.5°	369.8	366.0	356.9	349.8	348.5	348.5	353.7	364.7	395.7	473.8	762.3
75°	340.8	329.8	317.6	309.2	305.9	302.7	302.1	304.0	310.5	322.7	364.0
77.5°	305.3	291.1	276.9	268.5	264.6	260.1	256.2	251.7	248.5	252.4	270.4
80°	262.7	246.6	235.6	230.4	226.6	220.1	211.7	204.0	196.9	195.6	206.5
82.5°	211.7	193.0	193.6	195.6	188.5	179.4	170.4	162.0	149.7	143.3	149.7
85°	171.0	161.4	156.8	169.1	158.8	145.2	131.0	116.2	96.8	81.3	88.4
87.5°	66.5	66.5	99.4	153.0	137.5	112.3	96.2	82.0	51.0	39.4	40.0
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°	1514.9	1514.9	1514.9	1514.9	1514.9	1514.9	1514.9	1514.9
2.5°	1517.5	1518.8	1518.1	1517.5	1517.5	1516.8	1517.5	1517.5
5°	1529.1	1532.3	1532.3	1533.6	1533.6	1534.2	1534.9	1534.2
7.5°	1546.5	1552.3	1556.2	1560.7	1561.4	1562.0	1563.3	1562.0
10°	1563.9	1575.6	1583.9	1592.3	1596.2	1597.5	1598.8	1598.8
12.5°	1585.9	1602.0	1616.9	1631.7	1638.8	1642.7	1642.7	1645.3
15°	1622.0	1638.2	1655.6	1675.6	1687.9	1694.3	1696.3	1696.3
17.5°	1673.0	1687.2	1702.1	1721.4	1736.9	1745.3	1747.2	1746.6
20°	1732.4	1746.0	1754.3	1766.6	1780.2	1789.8	1792.4	1792.4
22.5°	1800.2	1807.9	1809.2	1813.1	1824.1	1837.0	1842.8	1844.1
25°	1875.0	1877.0	1871.8	1871.8	1878.9	1891.2	1897.0	1897.6
27.5°	1971.9	1962.2	1949.3	1944.8	1949.3	1963.5	1970.6	1973.2
30°	2092.6	2069.3	2039.6	2023.5	2020.9	2039.6	2052.5	2054.5
32.5°	2230.7	2197.1	2157.8	2124.8	2116.4	2128.1	2143.6	2142.9
35°	2394.6	2354.6	2306.9	2264.9	2245.5	2257.2	2279.1	2281.7
37.5°	2583.8	2531.5	2476.6	2423.7	2393.3	2396.6	2419.8	2427.6
40°	2794.8	2727.0	2658.0	2587.0	2543.7	2535.3	2563.7	2568.3
42.5°	3020.7	2933.6	2846.5	2758.7	2703.2	2690.3	2723.2	2721.2
45°	3261.5	3150.5	3048.5	2951.7	2885.8	2866.5	2893.6	2893.6
47.5°	3520.3	3383.5	3262.1	3152.4	3080.7	3053.0	3078.8	3080.7
50°	3794.6	3649.4	3506.7	3384.8	3298.9	3263.4	3297.0	3302.1
52.5°	4067.6	3926.3	3782.4	3642.9	3539.0	3495.8	3534.5	3551.3
55°	4344.5	4205.8	4068.3	3932.1	3808.8	3757.8	3799.1	3820.4
57.5°	4636.9	4508.5	4377.5	4240.0	4121.2	4041.8	4085.7	4114.1
60°	4979.7	4869.9	4733.8	4582.1	4462.0	4381.3	4406.5	4431.7
62.5°	5250.8	5293.4	5177.8	5002.3	4848.0	4744.7	4769.3	4795.7
65°	5119.7	5556.7	5659.3	5481.8	5268.2	5107.5	5097.1	5110.7
67.5°	4279.4	5128.1	5747.1	5916.2	5737.4	5514.1	5472.8	5492.8
70°	2862.6	3919.8	5011.9	5825.2	6041.4	5955.0	5914.3	5926.6
72.5°	1374.8	2283.0	3400.2	4481.4	5139.7	5441.8	5538.6	5585.8
75°	502.8	906.2	1638.8	2469.5	2981.4	3451.2	3757.8	3883.0
77.5°	303.4	366.0	523.5	788.1	892.7	999.2	957.9	978.5
80°	224.6	253.7	287.2	322.7	334.3	334.3	321.4	311.1
82.5°	157.5	176.2	192.3	211.7	216.9	207.2	170.4	135.5
85°	101.3	109.7	116.8	129.1	125.9	120.1	80.7	71.6
87.5°	46.5	52.9	55.5	61.3	58.7	56.2	40.0	33.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)