

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: P317497

Luminaire Tested: **GAN-SA3D-750-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317497
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3D-750-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24679 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

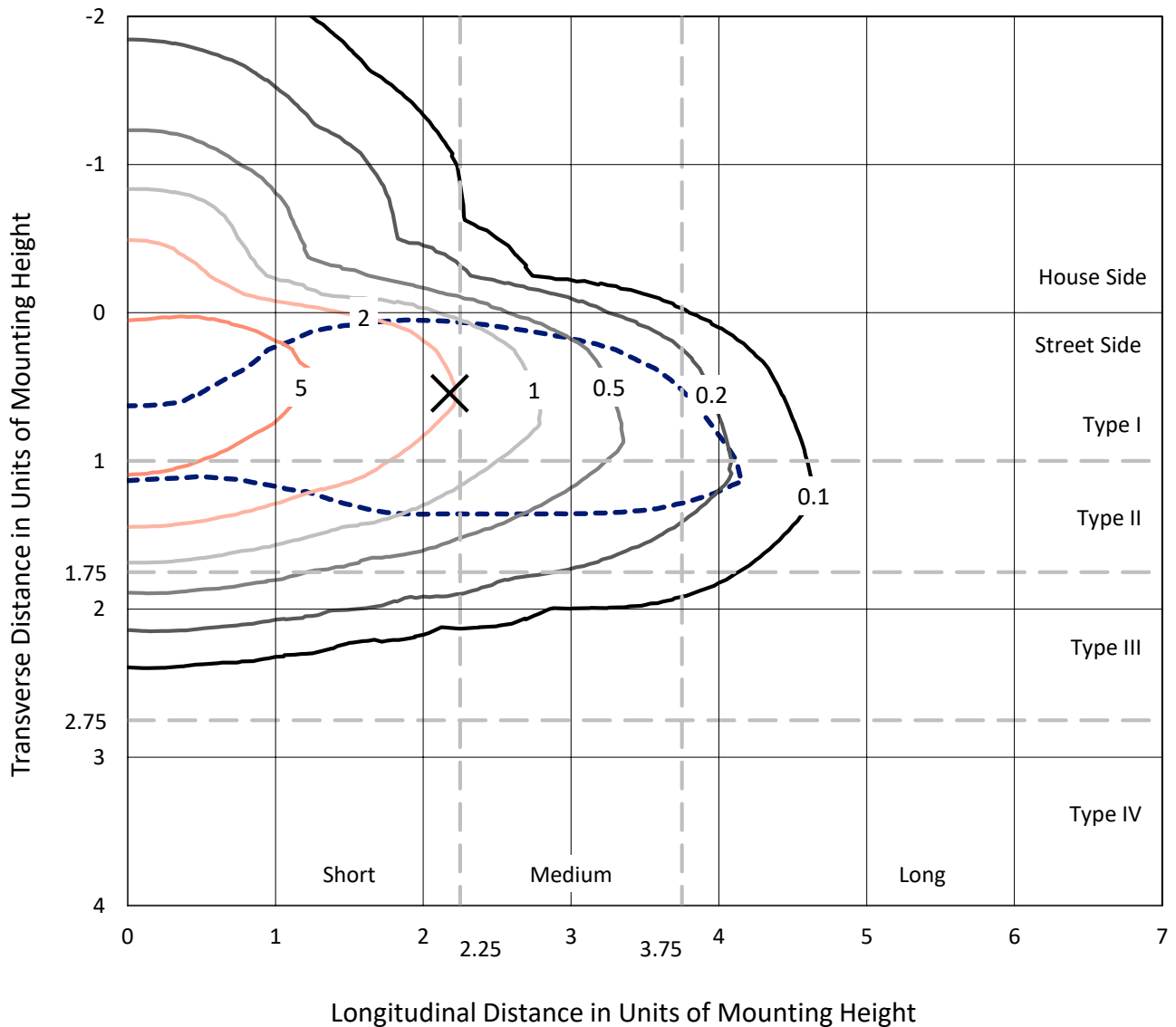
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

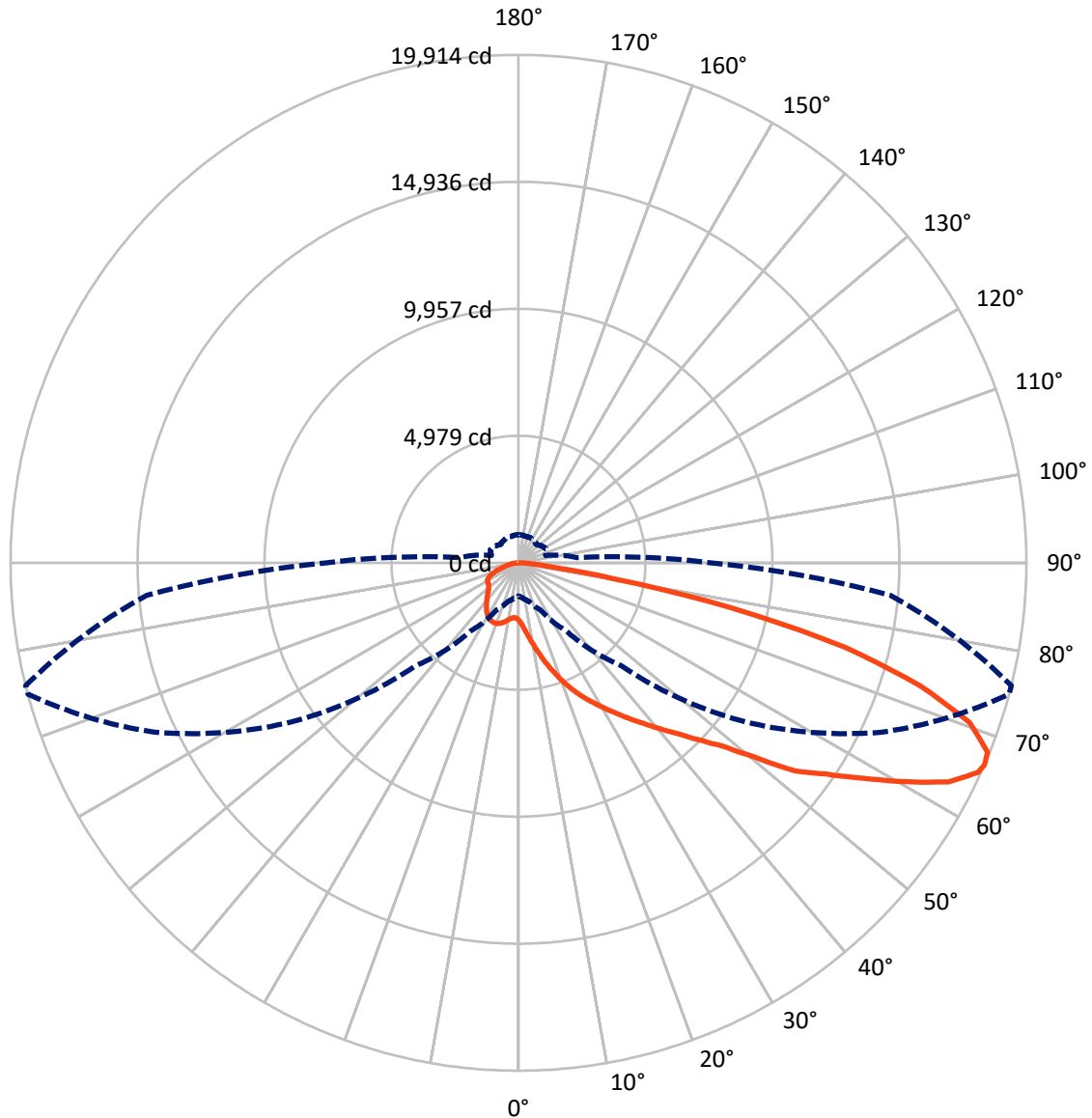
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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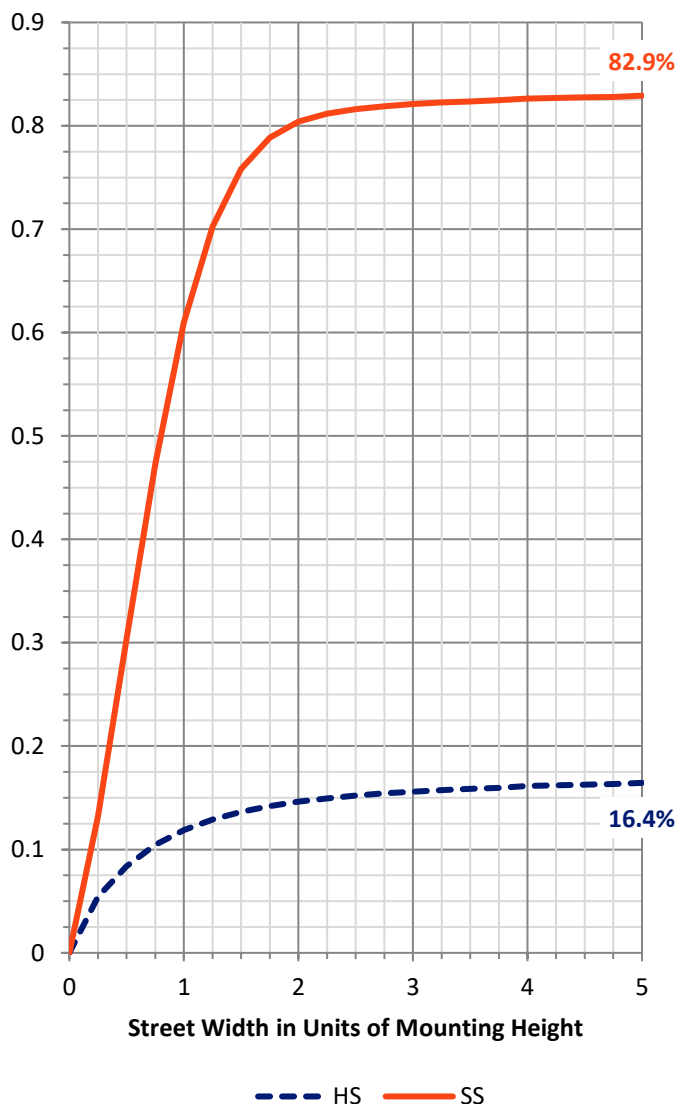
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4152.6	0.0	4152.6
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	20526.4	0.0	20526.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	24679.0	0.0	24679.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.5	1.1
10°-20°	1076.2	4.4
20°-30°	2091.4	8.5
30°-40°	3413.6	13.8
40°-50°	4663.8	18.9
50°-60°	5432.4	22.0
60°-70°	4870.3	19.7
70°-80°	2461.2	10.0
80°-90°	397.5	1.6
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°	24679.0	100.0
0°-180°	24679.0	100.0

Coefficient of Utilization



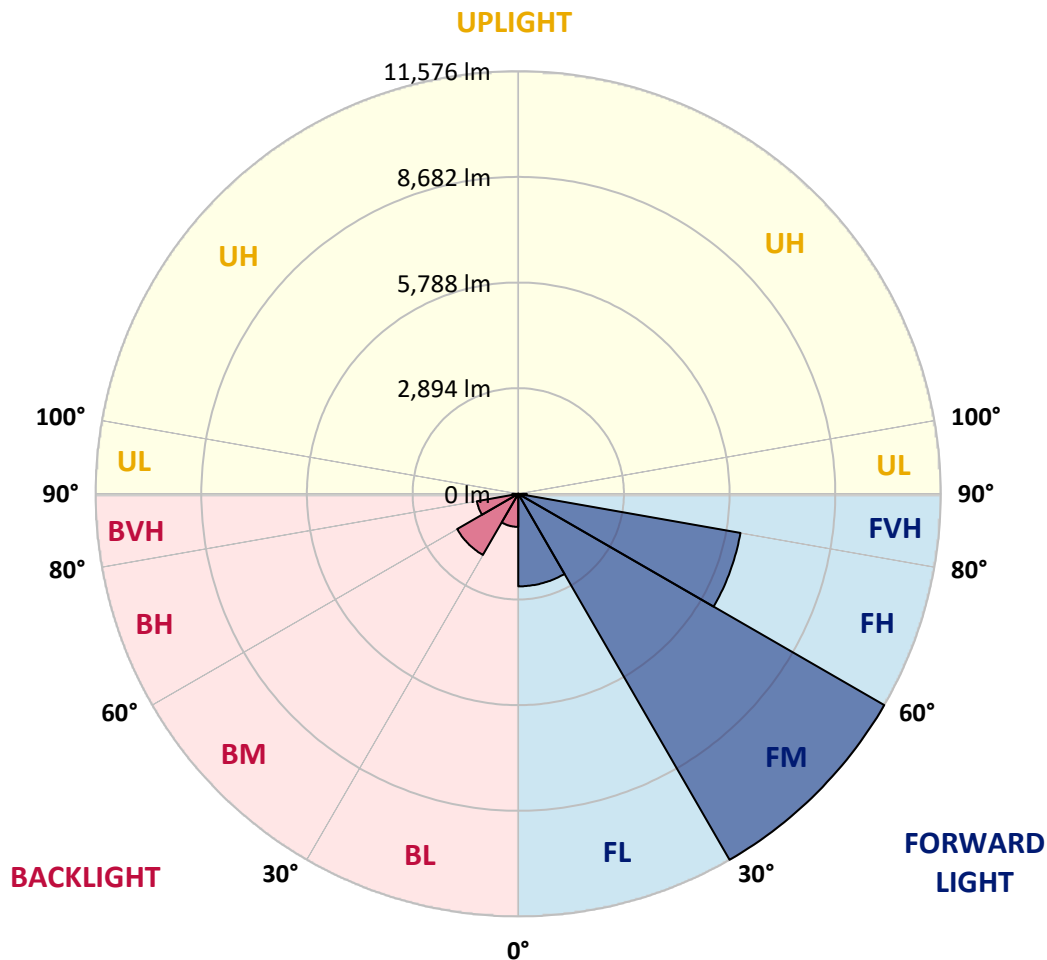
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2534.5	10.3			
FM (30°-60°)	11576.2	46.9			
FH (60°-80°)	6181.0	25.0			G3/7500
FVH (80°-90°)	234.7	1.0			G3/500
BL (0°-30°)	905.7	3.7	B2/1000		
BM (30°-60°)	1933.7	7.8	B2/2500		
BH (60°-80°)	1150.5	4.7	B3/2500		G3/2500
BVH (80°-90°)	162.7	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2253.7	2253.7	2253.7	2253.7	2253.7	2253.7	2253.7	2253.7	2253.7	2253.7	2253.7
2.5°	2991.9	2946.6	2942.4	2876.3	2861.2	2734.7	2641.7	2544.5	2433.9	2412.1	2325.0
5°	3843.1	3838.9	3781.1	3673.0	3588.4	3372.2	3158.6	2932.4	2684.4	2644.2	2448.1
7.5°	4608.9	4602.2	4557.8	4441.3	4319.0	4053.4	3748.4	3401.6	2999.4	2939.9	2614.9
10°	5190.3	5187.8	5172.7	5087.3	4983.4	4728.7	4391.9	3918.5	3365.5	3284.3	2823.5
12.5°	5639.4	5644.4	5654.5	5624.3	5574.9	5357.9	5012.7	4466.4	3756.0	3675.5	3055.5
15°	5943.5	5958.6	6010.6	6053.3	6079.3	5946.0	5611.8	5027.0	4193.3	4097.0	3312.8
17.5°	6096.9	6113.6	6203.3	6332.3	6451.3	6437.8	6172.3	5561.5	4613.1	4520.1	3589.2
20°	6229.2	6241.8	6342.3	6497.3	6707.6	6800.6	6651.5	6075.9	5073.0	4962.4	3882.5
22.5°	6613.0	6628.9	6659.0	6747.0	6933.0	7103.9	7031.9	6562.7	5494.5	5391.4	4160.6
25°	7353.6	7372.9	7307.5	7232.9	7268.1	7387.1	7400.5	7006.7	5921.7	5805.3	4459.7
27.5°	8245.9	8273.5	8162.1	7970.2	7802.7	7756.6	7740.7	7370.3	6329.8	6194.9	4755.5
30°	9119.7	9167.5	9022.5	8773.7	8466.2	8250.1	8090.0	7726.4	6731.9	6602.9	5034.5
32.5°	9973.5	9954.2	9743.9	9500.9	9140.7	8870.1	8483.0	8108.5	7184.3	7036.1	5311.8
35°	10558.3	10565.0	10369.8	10081.5	9738.0	9530.3	9009.1	8520.7	7646.0	7509.4	5626.8
37.5°	11055.9	11024.9	10803.8	10534.8	10239.1	10150.3	9624.9	8974.8	8146.2	7997.0	5962.0
40°	11221.8	11185.8	11040.9	10847.3	10610.2	10602.7	10304.4	9489.2	8711.7	8564.2	6339.8
42.5°	11121.3	11075.2	11015.7	10962.9	10890.0	10923.6	10942.8	10092.4	9333.4	9168.3	6777.2
45°	10750.1	10680.6	10722.5	10837.3	10995.6	11185.0	11519.3	10760.2	10029.6	9891.4	7290.8
47.5°	10179.6	10116.7	10247.4	10492.9	10923.6	11402.8	12064.7	11497.5	10860.7	10723.3	8022.2
50°	9376.9	9395.4	9582.2	10028.8	10679.8	11503.3	12736.6	12473.5	12068.9	11940.7	9020.0
52.5°	8059.9	8063.2	8589.4	9322.5	10247.4	11451.4	13109.4	13721.1	13718.5	13563.5	9970.1
55°	6836.7	6911.2	7327.6	8302.0	9547.0	11243.6	13370.0	14327.6	14801.9	14620.0	10855.7
57.5°	5641.9	5685.5	6080.1	7058.7	8547.5	10689.8	13637.3	15055.7	16050.2	15935.4	11956.6
60°	4283.0	4350.0	4758.0	5662.0	7269.0	9707.0	13662.4	15815.6	17542.4	17426.8	13185.7
62.5°	2779.9	2895.5	3277.6	4124.6	5722.3	8293.6	13079.3	16312.5	18956.6	18915.6	14276.5
65°	1597.7	1684.9	1950.5	2604.0	3947.8	6519.1	11692.7	16121.4	19827.1	19803.7	14684.6
66°	1305.3	1359.8	1563.4	2035.1	3257.5	5724.9	10886.7	15718.4	19913.4	19914.3	14637.6
67.5°	1043.9	1068.2	1159.5	1457.0	2403.7	4537.7	9446.5	14829.5	19806.2	19835.5	14335.2
70°	863.8	876.4	904.9	976.9	1312.0	2736.3	6705.1	12519.6	18729.6	18752.2	13154.7
72.5°	775.0	782.5	793.4	803.5	925.8	1529.0	4095.3	10015.4	16421.4	16450.7	11355.9
75°	702.1	706.3	704.6	705.4	776.7	974.4	2116.3	7477.6	13277.9	13219.2	8699.1
77.5°	616.6	620.8	612.5	614.1	687.0	749.0	1053.1	5234.7	8960.5	8546.7	4901.3
80°	521.1	524.5	521.1	527.0	598.2	565.5	612.5	2945.0	3962.1	3747.6	1742.7
82.5°	393.8	408.0	418.1	441.5	492.6	402.2	409.7	1147.0	1206.5	1148.7	534.5
85°	172.6	210.3	315.0	337.6	370.3	241.3	268.9	467.5	491.0	475.9	194.4
87.5°	45.2	49.4	155.8	196.1	205.3	108.9	139.9	212.8	224.5	212.8	64.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2253.7	2253.7	2253.7	2253.7	2253.7	2253.7	2253.7	2253.7	2253.7	2253.7	2253.7
2.5°	2278.9	2237.8	2164.1	2098.8	2049.3	2015.8	1982.3	1965.5	1955.5	1945.4	1947.1
5°	2351.8	2268.8	2142.3	2052.7	2002.4	1970.6	1953.8	1947.1	1942.9	1932.9	1932.9
7.5°	2461.5	2344.2	2170.0	2077.8	2038.4	2014.1	2004.1	2000.7	1995.7	1984.0	1985.6
10°	2599.8	2435.6	2227.8	2138.1	2102.1	2075.3	2061.0	2056.0	2046.8	2033.4	2035.1
12.5°	2762.3	2548.7	2304.0	2210.2	2166.6	2130.6	2107.1	2092.9	2077.0	2059.4	2060.2
15°	2939.9	2671.8	2386.1	2274.7	2215.2	2164.9	2127.2	2102.9	2077.8	2056.0	2055.2
17.5°	3120.1	2790.8	2449.0	2309.9	2229.5	2163.3	2112.2	2074.5	2043.5	2016.6	2014.1
20°	3314.4	2898.0	2484.2	2306.5	2202.6	2123.9	2056.0	2009.1	1974.8	1947.9	1943.8
22.5°	3512.2	2998.6	2490.0	2272.2	2143.2	2046.8	1975.6	1923.6	1888.5	1860.8	1850.8
25°	3693.1	3076.5	2465.7	2206.0	2060.2	1956.3	1886.8	1834.0	1805.5	1772.8	1762.8
27.5°	3858.2	3131.0	2417.1	2121.4	1967.2	1865.0	1799.6	1754.4	1723.4	1698.3	1689.9
30°	4006.5	3160.3	2337.5	2020.8	1871.7	1778.7	1723.4	1692.4	1665.6	1633.8	1627.9
32.5°	4147.2	3160.3	2235.3	1911.1	1777.0	1702.5	1669.8	1650.5	1620.4	1589.4	1581.0
35°	4288.0	3141.0	2114.7	1796.3	1689.9	1648.0	1646.3	1623.7	1577.6	1535.7	1524.8
37.5°	4436.3	3101.6	1978.9	1689.1	1618.7	1623.7	1637.9	1587.7	1522.3	1462.8	1446.9
40°	4603.8	3047.2	1838.2	1596.1	1559.2	1612.8	1615.3	1535.7	1408.4	1353.9	1339.7
42.5°	4800.7	2992.7	1707.5	1513.9	1512.3	1580.1	1572.6	1423.5	1347.2	1319.6	1312.0
45°	5059.6	2961.7	1583.5	1436.0	1475.4	1527.4	1499.7	1361.5	1329.6	1313.7	1307.0
47.5°	5467.6	2977.6	1469.5	1374.0	1438.5	1474.6	1364.0	1336.3	1313.7	1294.4	1287.7
50°	5978.7	2968.4	1377.4	1331.3	1396.7	1419.3	1302.8	1303.7	1291.9	1270.1	1260.1
52.5°	6363.3	2896.4	1317.9	1307.0	1359.8	1321.3	1264.3	1271.8	1266.0	1234.1	1223.2
55°	6734.4	2834.4	1287.7	1297.8	1333.0	1198.9	1219.0	1237.5	1231.6	1200.6	1195.6
57.5°	7196.1	2822.6	1269.3	1300.3	1310.4	1137.8	1175.5	1199.8	1195.6	1182.2	1179.7
60°	7761.6	2826.0	1252.5	1304.5	1285.2	1092.5	1134.4	1165.4	1167.9	1165.4	1163.7
62.5°	8072.4	2734.7	1210.7	1292.8	1240.8	1053.1	1091.7	1136.9	1137.8	1142.8	1142.0
65°	7808.5	2461.5	1132.7	1251.7	1166.3	1020.5	1054.8	1104.3	1091.7	1114.3	1114.3
66°	7552.2	2304.0	1094.2	1224.9	1134.4	1007.9	1043.1	1087.5	1071.6	1102.6	1102.6
67.5°	7028.5	2038.4	1024.7	1167.9	1089.2	990.3	1029.7	1059.8	1038.1	1084.1	1080.8
70°	6071.7	1576.8	884.7	1038.9	1014.6	964.3	1011.3	1004.6	972.7	1043.1	1029.7
72.5°	5119.1	1198.1	710.5	869.7	901.5	931.7	985.3	934.2	894.0	943.4	914.1
75°	3972.1	900.7	561.3	676.1	761.6	880.6	954.3	852.9	795.1	790.1	774.2
77.5°	2147.3	618.3	444.9	516.1	604.9	816.9	933.3	765.8	678.6	658.5	646.0
80°	850.4	402.2	323.4	391.3	423.1	724.7	883.1	664.4	559.7	539.6	520.3
82.5°	351.0	237.9	208.6	262.2	275.6	620.0	792.6	544.6	432.3	598.2	635.1
85°	150.8	130.7	124.0	135.7	155.8	434.8	630.9	415.6	466.7	416.4	330.9
87.5°	45.2	55.3	52.8	51.9	57.0	103.9	336.0	231.2	342.7	129.9	97.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)