

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: P198759

Luminaire Tested: **XNV2-AF-02-LED-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198759
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24136)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV2-AF-02-LED-U-T2
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12073.9 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 111
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

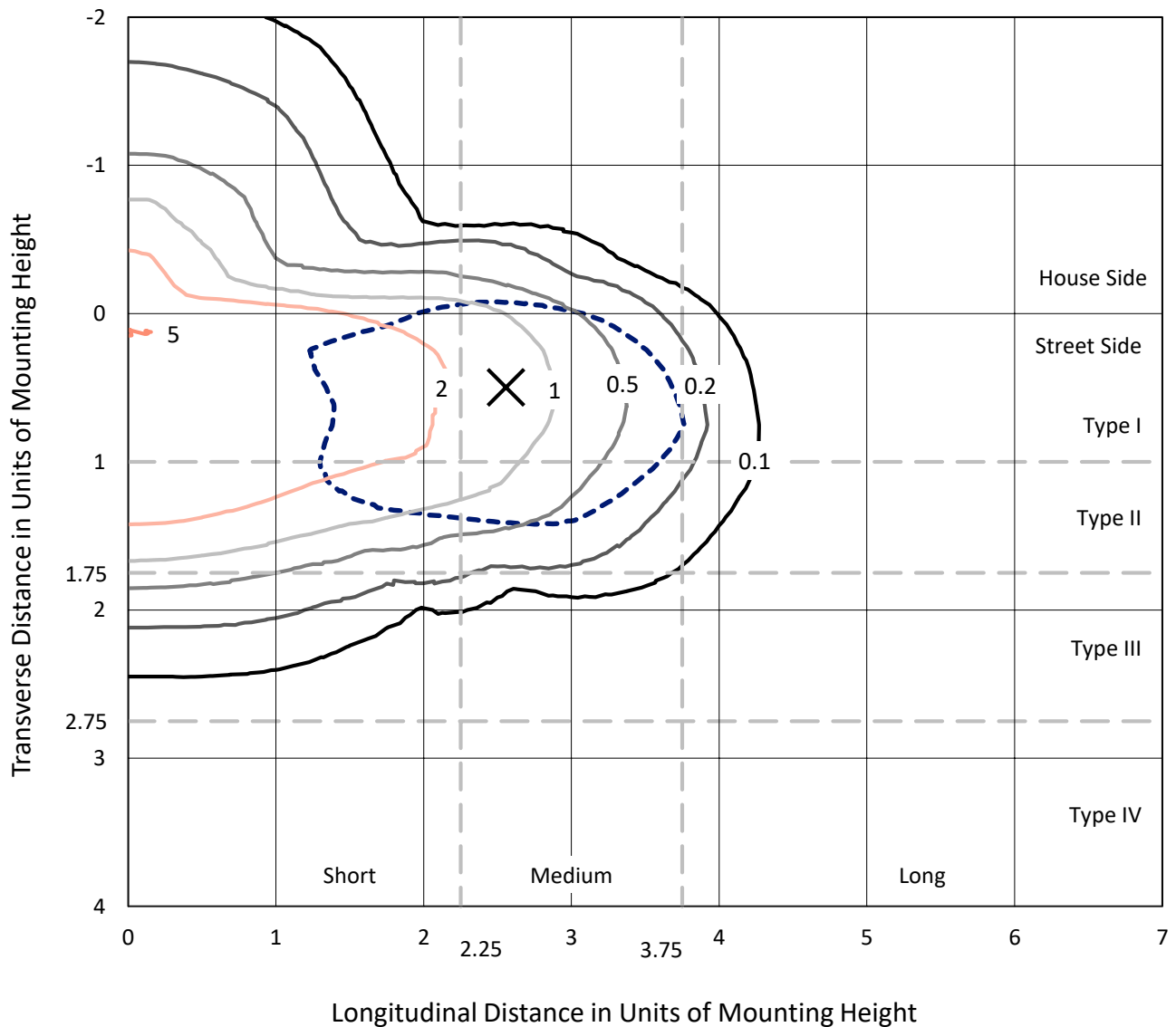


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

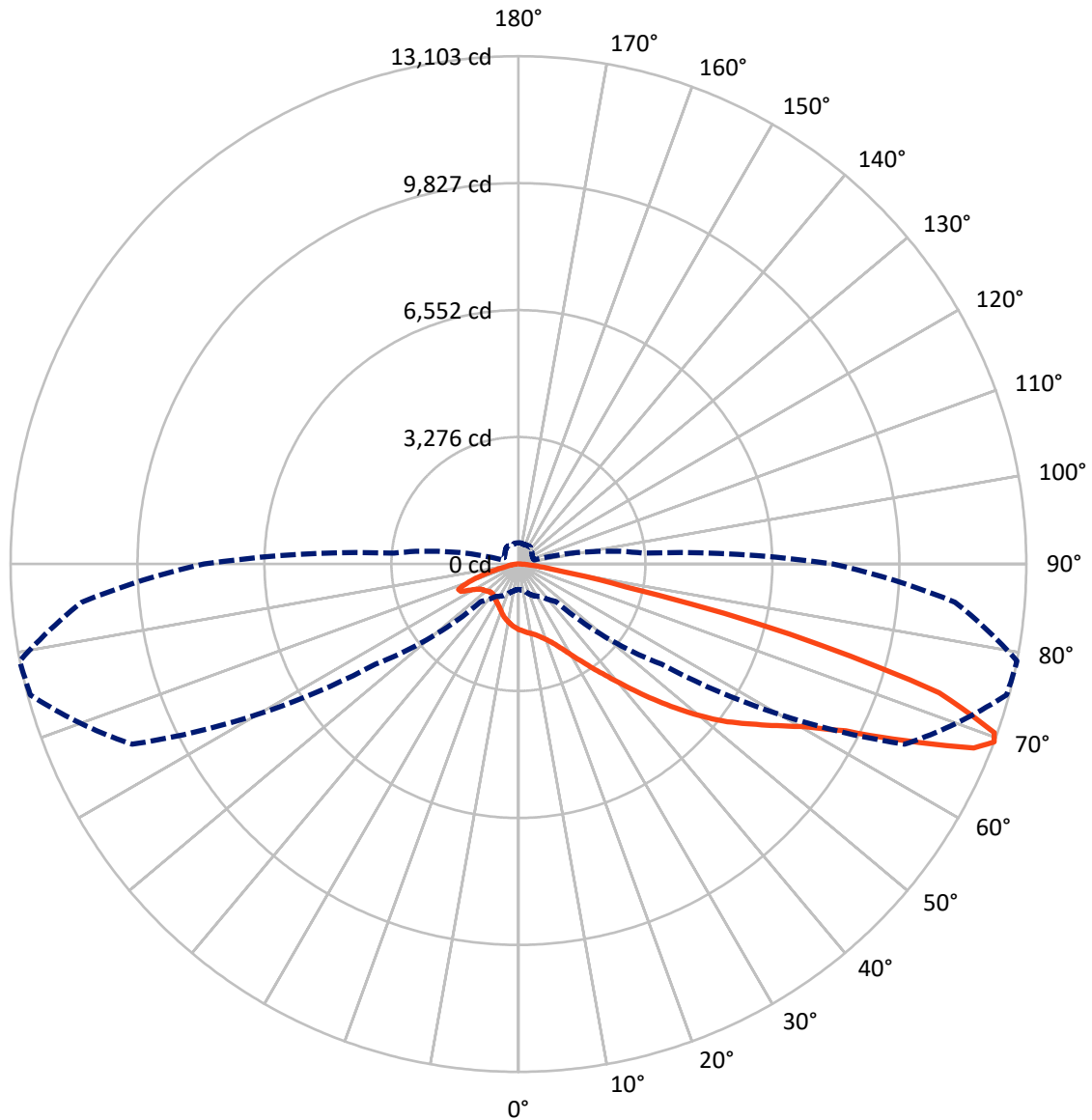


Based on 20 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2271.3	0.0	2271.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	9802.6	0.0	9802.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	12073.9	0.0	12073.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.1	1.3
10°-20°	450.3	3.7
20°-30°	744.1	6.2
30°-40°	1204.9	10.0
40°-50°	1924.9	15.9
50°-60°	2756.7	22.8
60°-70°	3071.3	25.4
70°-80°	1536.5	12.7
80°-90°	228.0	1.9
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°	12073.9	100.0
0°-180°	12073.9	100.0

Coefficient of Utilization



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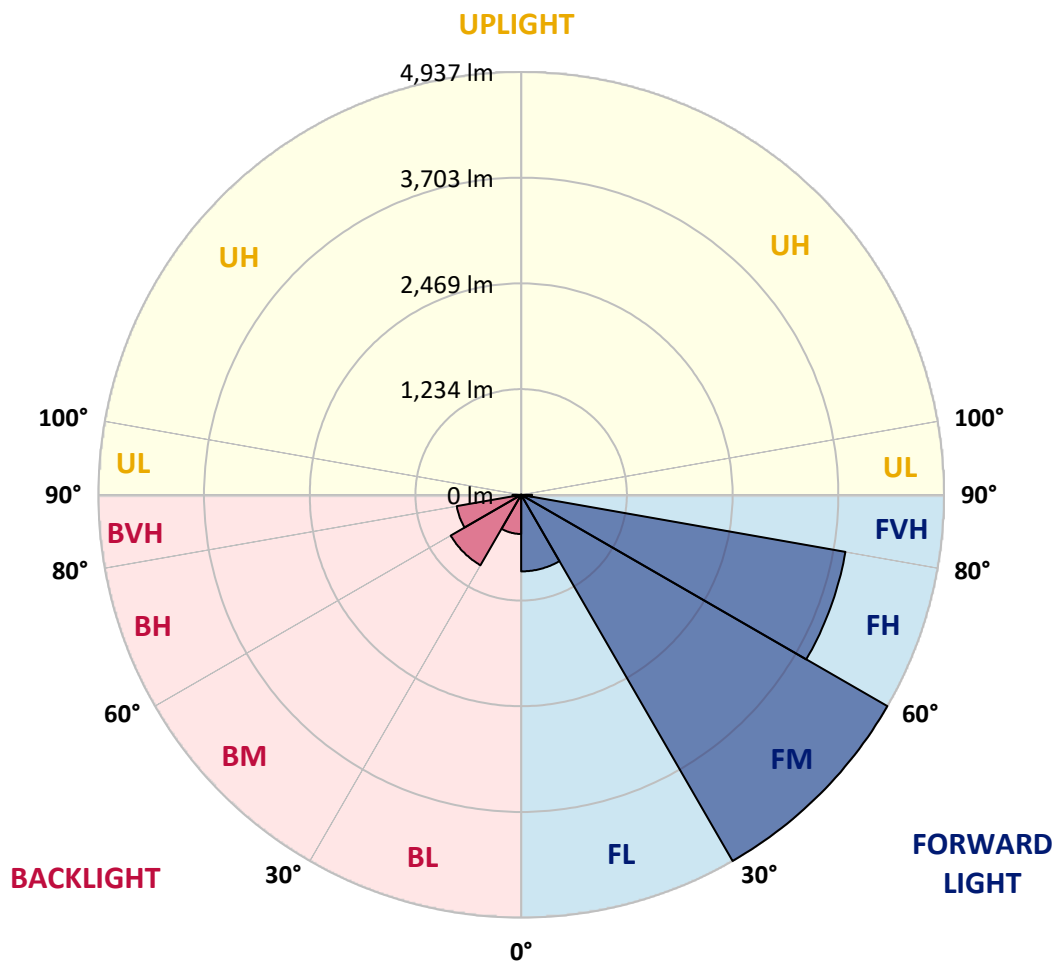
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	894.0	7.4			
FM	(30°-60°)	4937.0	40.9			
FH	(60°-80°)	3844.2	31.8			G2/5000
FVH	(80°-90°)	127.4	1.1			G2/225
BL	(0°-30°)	457.6	3.8	B1/500		
BM	(30°-60°)	949.4	7.9	B1/1000		
BH	(60°-80°)	763.7	6.3	B2/1000		G2/1000
BVH	(80°-90°)	100.6	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1694.3	1694.3	1694.3	1694.3	1694.3	1694.3	1694.3	1694.3	1694.3	1694.3	1694.3
2.5°	1860.2	1856.2	1855.5	1843.7	1837.3	1823.9	1792.3	1759.9	1729.9	1714.1	1697.5
5°	2015.8	2008.0	2004.0	1984.2	1966.8	1936.9	1887.0	1835.8	1782.0	1754.4	1721.2
7.5°	2109.8	2110.7	2110.7	2094.8	2077.4	2041.1	1977.9	1907.6	1827.8	1791.5	1739.3
10°	2117.7	2118.5	2130.4	2134.3	2138.3	2119.3	2060.8	1972.4	1869.7	1822.3	1754.4
12.5°	2039.6	2045.1	2064.8	2093.3	2133.6	2154.0	2128.8	2041.9	1923.5	1865.8	1782.8
15°	1934.5	1940.0	1965.3	2008.8	2073.5	2142.3	2177.8	2121.7	1993.7	1925.8	1824.6
17.5°	1883.2	1889.5	1906.9	1941.6	2004.8	2097.2	2203.8	2207.0	2076.7	1998.4	1874.5
20°	1858.6	1863.4	1885.5	1913.9	1962.1	2050.6	2206.2	2297.0	2175.4	2084.6	1935.2
22.5°	1914.8	1916.3	1927.3	1943.2	1975.5	2043.4	2204.7	2390.2	2298.7	2192.8	2013.5
25°	2079.0	2068.7	2060.8	2041.1	2049.0	2097.2	2229.9	2489.8	2456.6	2335.0	2117.7
27.5°	2273.3	2271.8	2251.2	2205.4	2176.2	2207.0	2301.7	2601.2	2650.2	2515.8	2254.4
30°	2489.8	2490.6	2469.2	2413.1	2353.9	2357.1	2416.3	2729.9	2881.6	2733.8	2422.7
32.5°	2716.4	2730.7	2691.2	2635.1	2563.2	2540.3	2580.6	2885.5	3149.4	2991.4	2617.7
35°	2987.4	2989.8	2946.3	2864.2	2792.3	2755.9	2793.1	3079.8	3458.2	3293.9	2855.5
37.5°	3268.6	3270.2	3225.2	3120.1	3029.3	3005.6	3046.7	3316.0	3785.2	3638.3	3135.1
40°	3498.5	3515.1	3479.6	3380.8	3289.2	3275.0	3334.2	3598.8	4203.1	4045.9	3467.7
42.5°	3759.1	3778.2	3735.5	3632.8	3560.1	3555.4	3647.7	3921.1	4618.6	4517.5	3844.5
45°	4053.0	4079.8	4020.6	3905.3	3843.6	3948.0	3953.5	4278.1	5097.3	5045.1	4268.7
47.5°	4373.7	4395.8	4347.6	4223.7	4156.5	4307.3	4252.8	4664.3	5614.7	5610.7	4727.6
50°	4621.0	4645.4	4650.1	4595.7	4525.3	4544.4	4581.5	5070.4	6130.4	6192.0	5202.3
52.5°	4576.0	4599.6	4706.3	4849.2	4962.2	4913.2	4958.2	5501.7	6628.9	6759.2	5653.3
55°	4212.6	4225.2	4425.1	4764.7	5245.8	5479.5	5482.7	5970.9	7102.9	7285.3	6081.4
57.5°	3557.7	3559.4	3819.2	4320.0	5080.7	5846.9	6310.6	6560.2	7597.4	7866.7	6612.3
60°	2517.4	2523.7	2826.3	3481.1	4489.0	5802.7	7200.8	7614.7	8170.0	8520.0	7296.4
62.5°	1494.5	1508.8	1737.0	2262.3	3334.2	5233.9	7726.9	9490.7	9013.6	9478.0	8391.2
65°	972.4	984.2	1120.8	1384.7	1970.0	3808.1	7553.9	11307.5	10610.0	10985.3	9964.7
67.5°	748.8	758.3	865.7	1025.3	1208.5	2058.5	6039.6	11688.2	12553.1	12670.1	11292.5
69°	658.0	665.9	744.9	898.2	1017.4	1362.6	4500.9	10997.0	13038.9	13103.0	11309.1
70°	609.8	616.1	690.4	823.1	934.5	1087.7	3444.8	10194.5	12861.3	13024.7	10982.8
72.5°	502.4	507.9	560.9	662.8	763.8	774.9	1526.1	7444.1	10829.6	11352.5	9294.0
75°	419.4	422.6	457.4	531.6	618.5	616.9	779.6	4216.5	6608.4	7231.5	5738.7
77.5°	350.0	352.3	375.2	421.0	488.2	485.8	549.0	1819.9	2917.9	2815.3	1975.5
80°	308.8	310.5	322.3	334.1	376.8	374.4	406.8	835.8	1187.2	1097.2	747.3
82.5°	234.6	237.7	297.8	303.3	292.3	282.0	283.6	486.6	608.2	553.7	401.3
85°	132.7	133.5	191.2	223.5	254.3	191.2	184.0	251.2	300.1	263.0	175.3
87.5°	59.2	61.6	91.7	105.9	137.5	112.2	105.1	106.6	129.5	107.4	69.6
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°	1694.3	1694.3	1694.3	1694.3	1694.3	1694.3	1694.3	1694.3	1694.3	1694.3	1694.3
2.5°	1681.7	1668.3	1636.7	1604.3	1571.9	1551.4	1530.0	1510.3	1502.4	1501.6	1486.6
5°	1688.8	1657.2	1585.4	1506.4	1431.3	1372.9	1323.9	1292.3	1261.5	1256.0	1242.5
7.5°	1691.1	1639.9	1523.0	1396.5	1282.1	1201.5	1152.5	1131.2	1116.1	1112.2	1107.4
10°	1690.4	1617.7	1453.4	1280.4	1150.1	1089.2	1071.1	1075.8	1082.2	1085.4	1085.4
12.5°	1703.0	1607.5	1384.0	1171.4	1064.8	1035.5	1049.8	1074.3	1093.2	1101.1	1102.7
15°	1725.9	1601.1	1307.3	1076.7	1004.7	1011.9	1046.6	1082.2	1109.0	1120.8	1124.0
17.5°	1754.4	1592.4	1218.8	998.4	970.0	994.5	1039.5	1084.5	1117.0	1131.9	1134.4
20°	1786.0	1579.8	1127.2	940.0	939.2	970.0	1015.1	1065.6	1100.4	1117.0	1116.1
22.5°	1828.6	1568.0	1041.9	897.3	905.2	933.6	970.8	1016.6	1049.0	1064.0	1060.8
25°	1885.5	1556.9	965.3	859.4	866.5	885.5	911.6	946.3	969.2	977.1	971.6
27.5°	1962.1	1548.2	905.2	824.7	823.9	832.6	848.3	867.4	878.4	876.1	867.4
30°	2056.1	1539.5	861.0	793.8	782.8	782.0	789.1	800.2	807.3	793.1	785.9
32.5°	2161.2	1524.5	821.5	767.0	747.3	740.1	743.3	758.3	787.6	773.4	767.8
35°	2285.2	1507.1	782.0	737.8	722.7	709.3	711.7	744.1	832.6	822.2	816.7
37.5°	2434.5	1491.4	745.6	706.1	705.4	688.8	687.2	725.9	844.4	822.2	817.5
40°	2613.8	1488.2	713.3	671.5	684.0	677.7	672.2	695.9	778.9	733.9	725.2
42.5°	2830.2	1502.4	689.6	638.2	659.6	674.5	664.3	669.8	703.8	663.5	656.4
45°	3083.0	1541.1	672.2	609.1	633.5	672.2	660.3	655.6	661.1	639.0	634.3
47.5°	3377.7	1609.8	660.3	584.5	609.1	665.9	658.8	649.3	646.9	634.3	631.2
50°	3692.9	1702.3	652.4	562.4	586.9	654.8	658.0	644.6	640.6	635.0	633.5
52.5°	4005.6	1802.5	643.0	543.5	568.8	641.4	658.8	639.9	634.3	631.2	629.5
55°	4316.9	1906.9	625.6	526.8	555.3	625.6	658.0	633.5	627.2	627.2	627.2
57.5°	4720.5	2065.6	602.7	513.4	538.0	605.1	647.7	626.4	617.7	618.5	619.3
60°	5303.4	2331.8	577.5	498.4	515.1	581.3	631.9	613.8	603.4	606.6	607.4
62.5°	6277.3	2797.1	542.7	477.1	491.3	556.1	611.4	596.4	586.9	592.4	593.2
65°	7576.0	3360.3	496.8	450.2	466.9	527.6	585.3	575.8	565.6	579.0	578.2
67.5°	8368.2	3525.4	448.7	421.8	443.1	497.7	552.9	549.0	541.9	565.6	564.0
69°	8108.4	3226.8	421.0	403.7	426.6	477.1	532.4	530.8	525.3	548.2	546.7
70°	7704.8	2947.9	403.7	391.8	417.9	464.4	518.9	518.9	513.4	533.2	529.3
72.5°	6189.0	2186.5	363.4	361.8	387.8	429.7	482.6	486.6	483.4	490.5	486.6
75°	3633.5	1317.6	323.9	328.6	351.5	392.6	442.3	445.5	442.3	441.6	442.3
77.5°	1259.9	590.9	285.9	293.1	312.8	354.7	398.1	404.5	399.7	394.1	395.8
80°	492.9	343.6	244.9	255.1	271.7	312.0	353.8	357.8	350.7	350.0	343.6
82.5°	296.2	209.3	190.4	206.9	227.5	271.0	305.7	304.1	298.6	330.9	289.9
85°	128.8	116.1	139.0	155.6	165.9	203.1	258.3	251.2	237.7	209.3	204.6
87.5°	52.2	60.0	76.6	92.4	99.5	131.1	177.0	170.6	173.0	142.2	141.4
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)