

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: P271350

Luminaire Tested: **XNV2-AF-02-LED-U-T3R-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271350
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24250)
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-T3R-7027-600
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7020.5 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
Input Voltage (V): NR
Input Current (A_{in}): 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

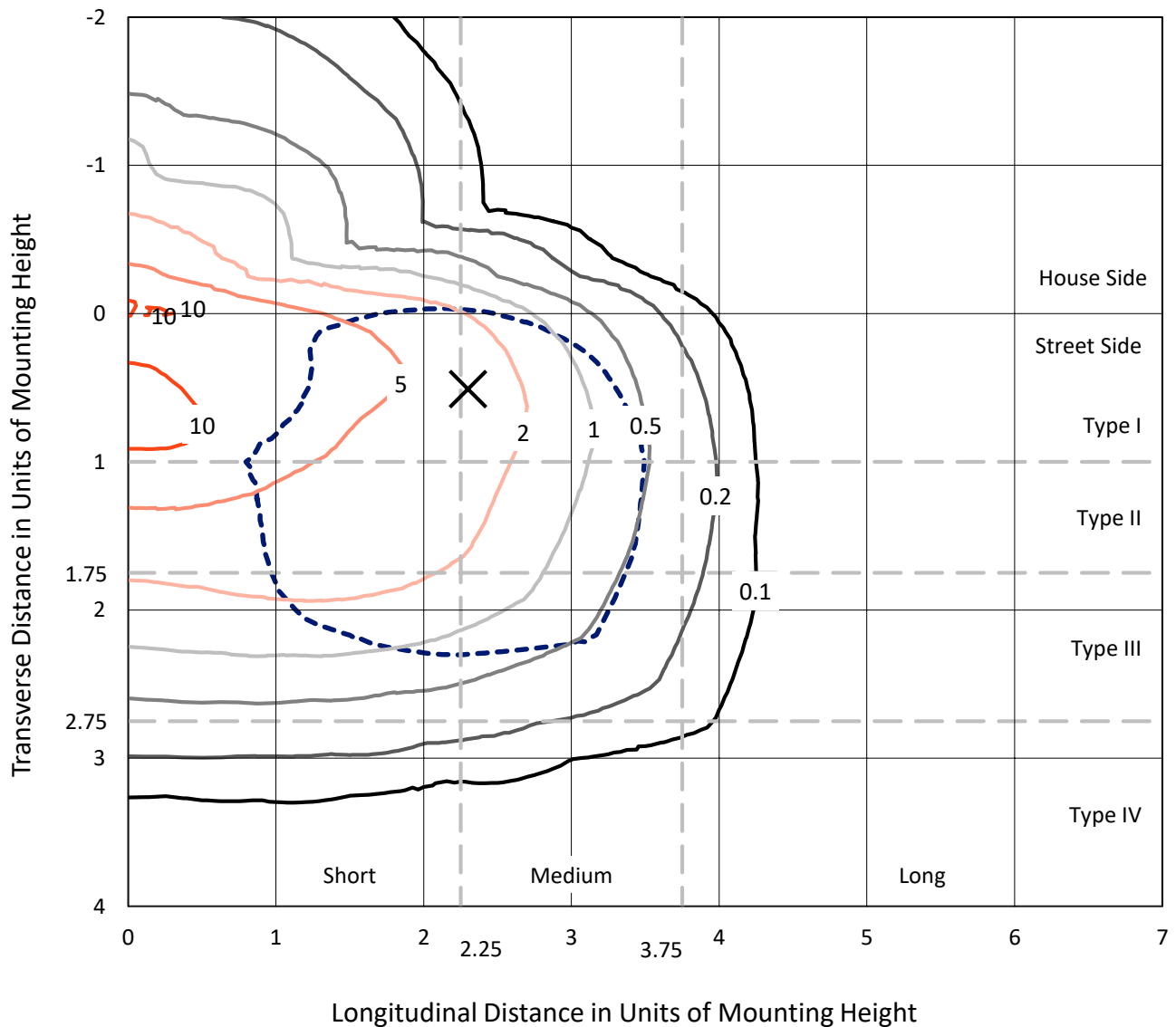


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

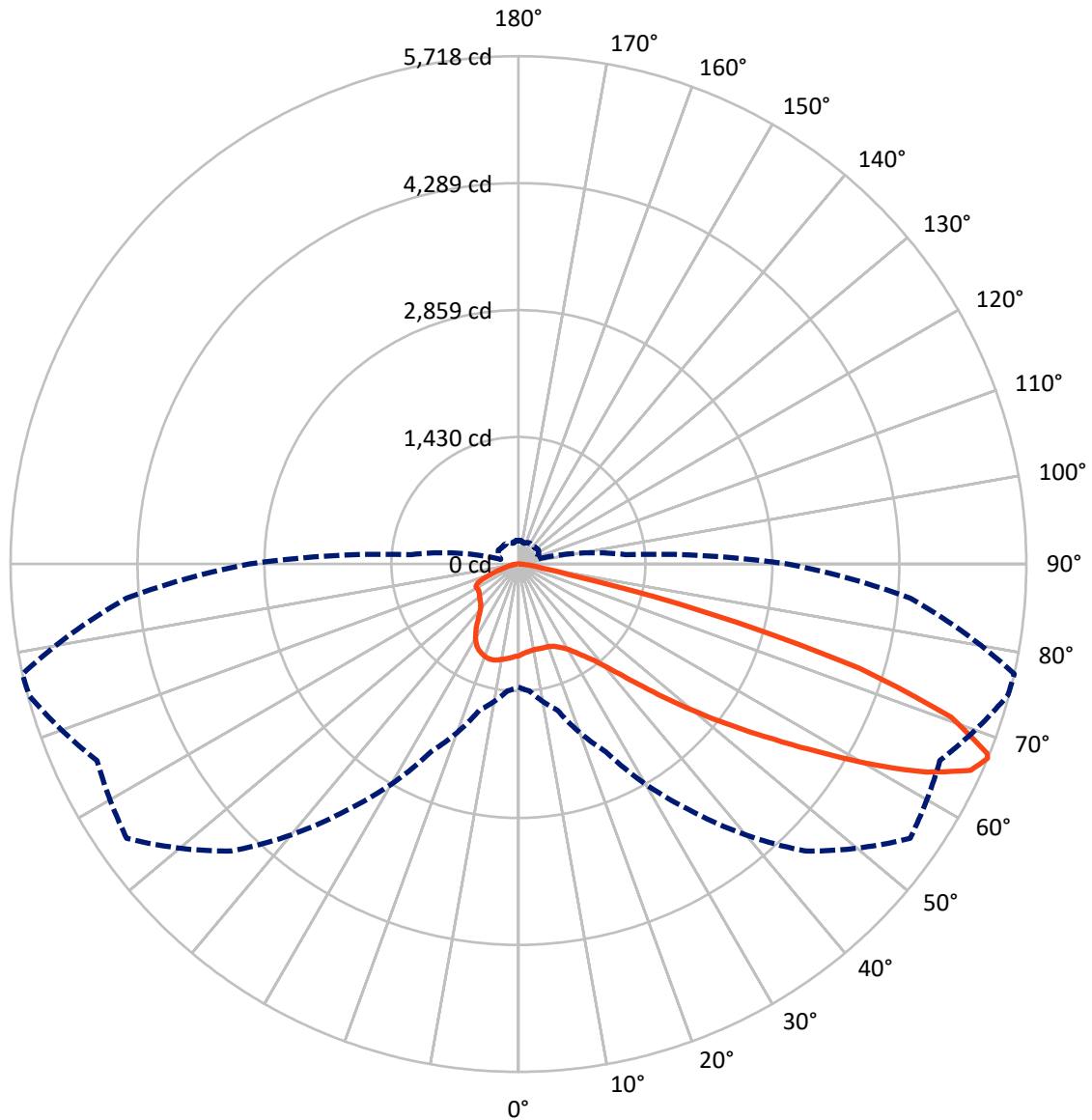


Based on 10 foot mounting height. Maximum calculated value = 12.4 fc
 Type III - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical



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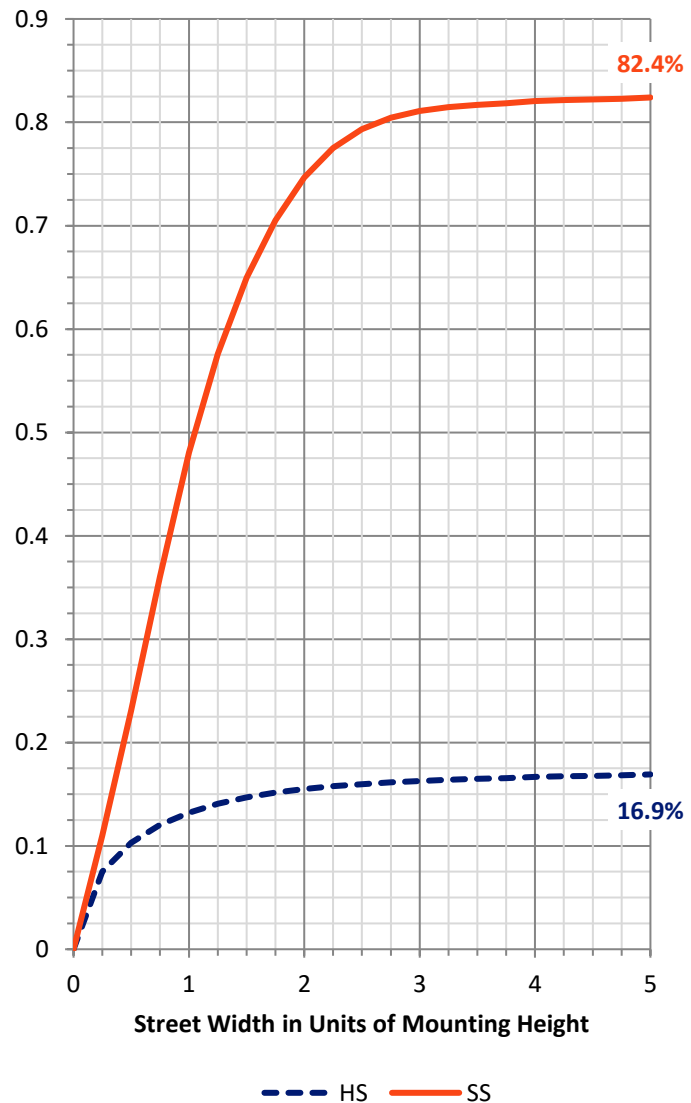
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1206.5	0.0	1206.5
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	5814.1	0.0	5814.1
	% Fixture	82.8	0.0	82.8
Total	Lumens	7020.5	0.0	7020.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.0	1.3
10°-20°	254.8	3.6
20°-30°	433.0	6.2
30°-40°	692.7	9.9
40°-50°	1066.4	15.2
50°-60°	1479.6	21.1
60°-70°	1973.7	28.1
70°-80°	939.3	13.4
80°-90°	88.9	1.3
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°	7020.5	100.0
0°-180°	7020.5	100.0



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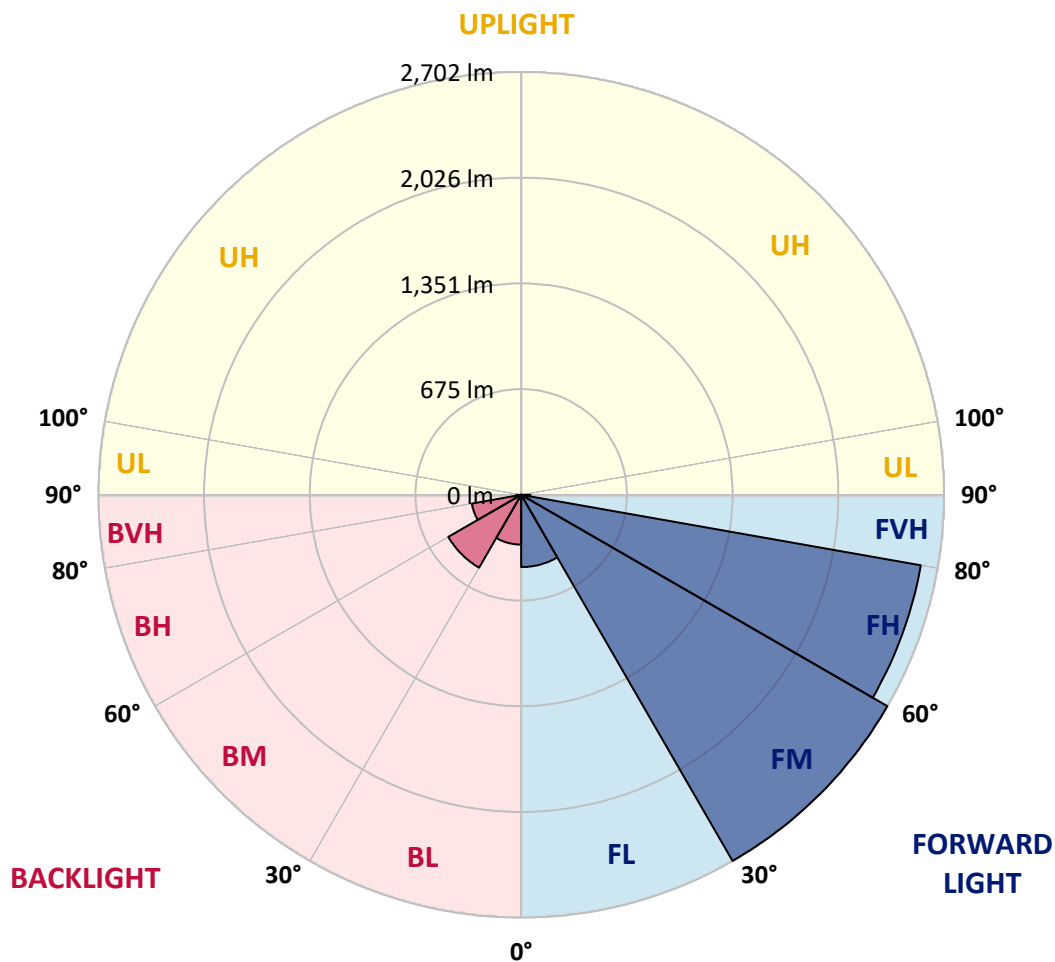
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	461.7	6.6			
FM	(30°-60°)	2701.6	38.5			
FH	(60°-80°)	2593.1	36.9			G2/5000
FVH	(80°-90°)	57.8	0.8			G1/100
BL	(0°-30°)	318.2	4.5	B1/500		
BM	(30°-60°)	537.2	7.7	B1/1000		
BH	(60°-80°)	319.9	4.6	B1/500		G1/500
BVH	(80°-90°)	31.2	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2
2.5°	926.5	930.9	931.3	943.8	949.5	963.8	979.4	993.3	1005.5	1009.9	1017.6
5°	833.5	833.5	835.0	843.1	859.1	882.2	914.7	950.3	987.6	996.8	1019.8
7.5°	784.9	785.8	786.7	795.0	807.5	828.0	860.5	909.2	971.2	986.3	1026.8
10°	789.4	788.1	783.7	782.0	787.2	800.2	828.3	878.4	957.4	980.7	1039.2
12.5°	857.5	854.8	840.5	819.8	800.6	795.9	815.4	862.7	950.8	980.7	1060.5
15°	974.2	976.0	947.7	904.4	854.5	820.6	817.9	857.1	948.6	983.4	1085.3
17.5°	1126.1	1127.0	1087.8	1025.0	942.1	872.3	835.9	857.1	948.6	985.9	1109.1
20°	1287.5	1281.4	1237.1	1158.3	1050.6	943.8	868.3	862.3	951.2	989.8	1131.8
22.5°	1426.0	1420.3	1373.9	1291.0	1167.7	1028.5	912.1	879.6	965.6	1005.9	1163.5
25°	1547.1	1550.6	1505.4	1412.0	1284.4	1123.9	977.6	919.5	995.5	1034.9	1202.6
27.5°	1694.2	1687.6	1635.5	1546.6	1404.7	1222.9	1059.7	969.9	1031.1	1070.2	1250.3
30°	1864.3	1861.2	1791.0	1699.4	1537.1	1333.5	1140.8	1024.1	1077.4	1118.3	1310.1
32.5°	2070.9	2070.4	1994.9	1882.5	1685.8	1458.5	1236.7	1098.4	1145.2	1186.4	1389.5
35°	2304.7	2304.3	2226.2	2077.8	1857.3	1596.9	1349.7	1188.5	1228.9	1272.4	1484.1
37.5°	2467.0	2464.4	2423.5	2279.5	2047.0	1758.0	1490.6	1310.1	1324.0	1372.6	1598.3
40°	2498.2	2513.8	2549.0	2464.1	2253.9	1936.7	1632.1	1440.7	1453.7	1516.2	1741.9
42.5°	2464.4	2484.8	2601.5	2625.3	2460.9	2153.2	1809.1	1621.7	1638.1	1715.9	1910.7
45°	2434.9	2452.7	2598.9	2714.8	2665.4	2389.3	2030.0	1842.6	1873.9	1970.2	2103.3
47.5°	2384.6	2401.1	2547.8	2730.8	2782.1	2616.8	2296.1	2108.1	2162.0	2278.7	2322.9
50°	2381.9	2389.3	2477.9	2677.0	2822.5	2789.4	2590.7	2418.9	2501.3	2635.8	2566.0
52.5°	2316.0	2367.7	2447.9	2591.2	2823.4	2890.0	2881.0	2759.6	2886.7	3035.6	2832.4
55°	1912.4	1971.9	2348.1	2549.0	2818.2	2976.4	3146.1	3121.9	3320.6	3477.2	3131.0
57.5°	1785.7	1810.9	2060.0	2561.5	2861.6	3119.3	3411.4	3511.0	3817.1	3988.0	3488.9
60°	1750.9	1777.4	2002.2	2567.6	2979.0	3379.2	3771.1	3950.7	4400.6	4582.1	3895.6
62.5°	1712.3	1746.7	2006.6	2573.4	3185.6	3763.7	4248.4	4427.6	5000.0	5161.8	4276.7
65°	1599.5	1645.2	1926.3	2537.7	3411.8	4246.2	4879.4	4924.9	5495.1	5598.0	4506.5
67°	1385.6	1435.5	1705.8	2332.1	3390.9	4571.3	5384.0	5236.1	5705.6	5718.3	4432.0
67.5°	1318.0	1369.6	1631.2	2246.7	3331.5	4613.8	5473.5	5279.0	5703.9	5690.0	4362.4
70°	887.4	945.6	1155.2	1649.5	2672.3	4294.0	5451.8	5146.7	5329.9	5170.6	3748.1
72.5°	440.4	442.1	576.4	903.4	1619.0	3079.7	4547.8	4402.9	4320.4	4019.6	2750.4
75°	212.2	216.1	272.0	399.2	682.6	1590.0	3101.5	2970.9	2529.4	2190.2	1376.6
77.5°	161.9	165.7	211.3	259.9	284.7	518.6	1536.2	1241.5	732.9	585.3	388.0
80°	125.0	132.4	178.4	199.7	188.4	207.9	483.0	380.2	285.1	261.6	192.2
82.5°	97.6	102.0	151.5	151.5	130.2	139.2	224.8	219.5	177.1	159.7	103.2
85°	69.0	77.7	121.9	112.8	85.5	86.3	134.6	128.8	91.1	73.3	40.3
87.5°	30.8	39.4	86.7	73.8	45.5	35.2	55.2	47.3	36.0	27.8	18.7
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°	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2
2.5°	1026.4	1033.2	1044.1	1050.6	1059.3	1062.8	1066.2	1072.2	1077.1	1075.8	1073.7
5°	1035.8	1047.6	1061.0	1065.4	1065.4	1061.0	1058.5	1058.8	1057.6	1056.6	1054.2
7.5°	1049.7	1065.7	1075.4	1071.0	1057.6	1040.6	1024.5	1015.1	1005.9	1000.3	1002.0
10°	1069.3	1087.0	1087.5	1068.4	1036.3	999.4	967.7	947.4	927.8	919.1	921.8
12.5°	1097.5	1115.2	1100.1	1058.8	1002.4	944.7	886.5	844.4	806.7	797.7	795.0
15°	1127.8	1141.7	1107.9	1038.4	953.8	858.8	761.1	698.3	656.1	648.8	646.2
17.5°	1154.3	1162.0	1103.9	1002.0	877.0	727.3	613.6	571.1	562.3	566.7	566.7
20°	1177.8	1175.2	1087.0	945.6	756.0	581.6	515.5	515.1	526.9	537.6	538.5
22.5°	1207.2	1186.9	1060.1	861.8	611.4	485.2	473.9	485.2	498.2	510.3	511.7
25°	1242.4	1199.9	1024.1	742.4	491.6	440.4	445.2	454.8	463.0	472.6	473.0
27.5°	1277.6	1209.8	973.4	602.4	426.5	411.9	417.1	420.9	423.1	429.2	429.2
30°	1318.4	1217.7	900.0	482.6	396.6	386.6	383.7	381.9	383.7	391.9	392.3
32.5°	1369.6	1231.5	799.9	413.9	382.8	368.8	353.3	344.6	350.6	365.4	367.9
35°	1427.6	1248.0	679.6	386.6	377.9	360.2	331.6	318.1	320.2	333.7	335.8
37.5°	1500.6	1269.3	561.1	380.2	382.8	359.3	321.6	302.5	292.8	293.3	292.8
40°	1594.0	1290.5	467.4	381.9	393.2	361.5	316.8	286.9	266.8	267.8	269.5
42.5°	1691.6	1304.5	407.9	387.1	405.8	364.5	315.0	271.6	254.3	269.0	282.4
45°	1805.7	1300.6	377.1	391.9	415.2	365.8	308.6	269.9	255.6	299.9	325.0
47.5°	1936.7	1283.6	359.7	394.0	417.9	365.4	303.7	275.6	266.4	343.2	371.9
50°	2079.0	1257.2	345.8	390.6	416.6	363.6	308.9	282.4	270.7	352.9	375.0
52.5°	2234.9	1232.8	331.6	382.8	410.0	358.5	315.5	279.5	258.6	325.0	342.0
55°	2419.2	1227.3	315.5	369.4	399.2	352.9	312.0	269.9	245.1	288.1	298.5
57.5°	2630.1	1262.4	294.6	352.9	384.5	341.5	303.7	264.7	240.3	262.1	267.8
60°	2897.9	1340.0	272.5	335.4	366.2	324.6	296.4	266.0	241.7	258.3	259.5
62.5°	3107.1	1409.9	252.6	314.1	342.0	304.2	288.5	267.3	245.6	263.5	261.2
65°	3183.1	1375.7	227.8	282.4	307.7	281.6	277.8	268.1	245.6	266.4	261.6
67°	3027.3	1212.1	204.4	250.8	275.2	261.6	267.3	264.7	241.3	266.0	257.8
67.5°	2953.1	1154.3	198.3	245.6	266.4	255.6	264.7	262.9	239.9	265.1	255.6
70°	2435.3	828.0	167.5	206.2	223.0	225.2	248.7	251.6	229.5	249.1	231.8
72.5°	1732.8	518.1	144.4	159.7	180.1	192.6	226.9	236.6	215.7	216.5	202.2
75°	857.5	278.1	128.8	123.2	140.1	160.5	197.8	215.7	195.3	180.5	175.8
77.5°	289.4	157.6	109.0	99.4	109.0	128.8	164.0	188.4	172.2	152.7	149.7
80°	149.7	114.5	85.1	79.9	85.9	99.8	128.5	156.7	147.1	148.0	121.9
82.5°	93.3	69.9	61.2	60.7	65.0	76.4	94.6	127.1	126.3	108.1	78.5
85°	43.4	40.3	39.0	40.3	41.6	43.4	61.7	90.6	95.8	58.1	51.7
87.5°	18.2	17.7	15.6	16.9	18.7	18.2	24.8	38.6	53.8	36.4	33.3
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)