

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: P199135

Luminaire Tested: **XNV2-AF-02-LED-U-5NQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199135
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24130)
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-5NQ-8030
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10116 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

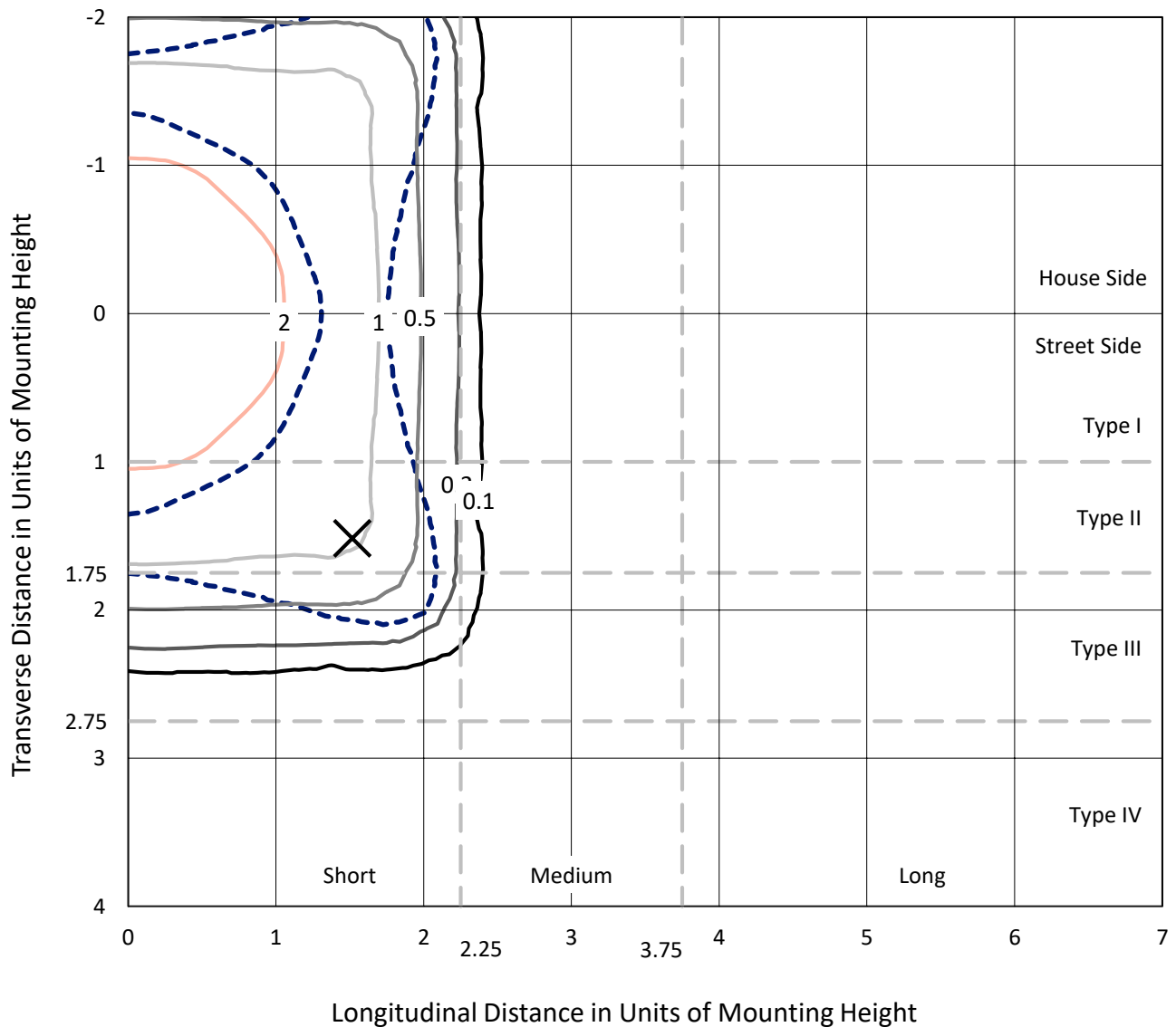
Input Watts (W): 111
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

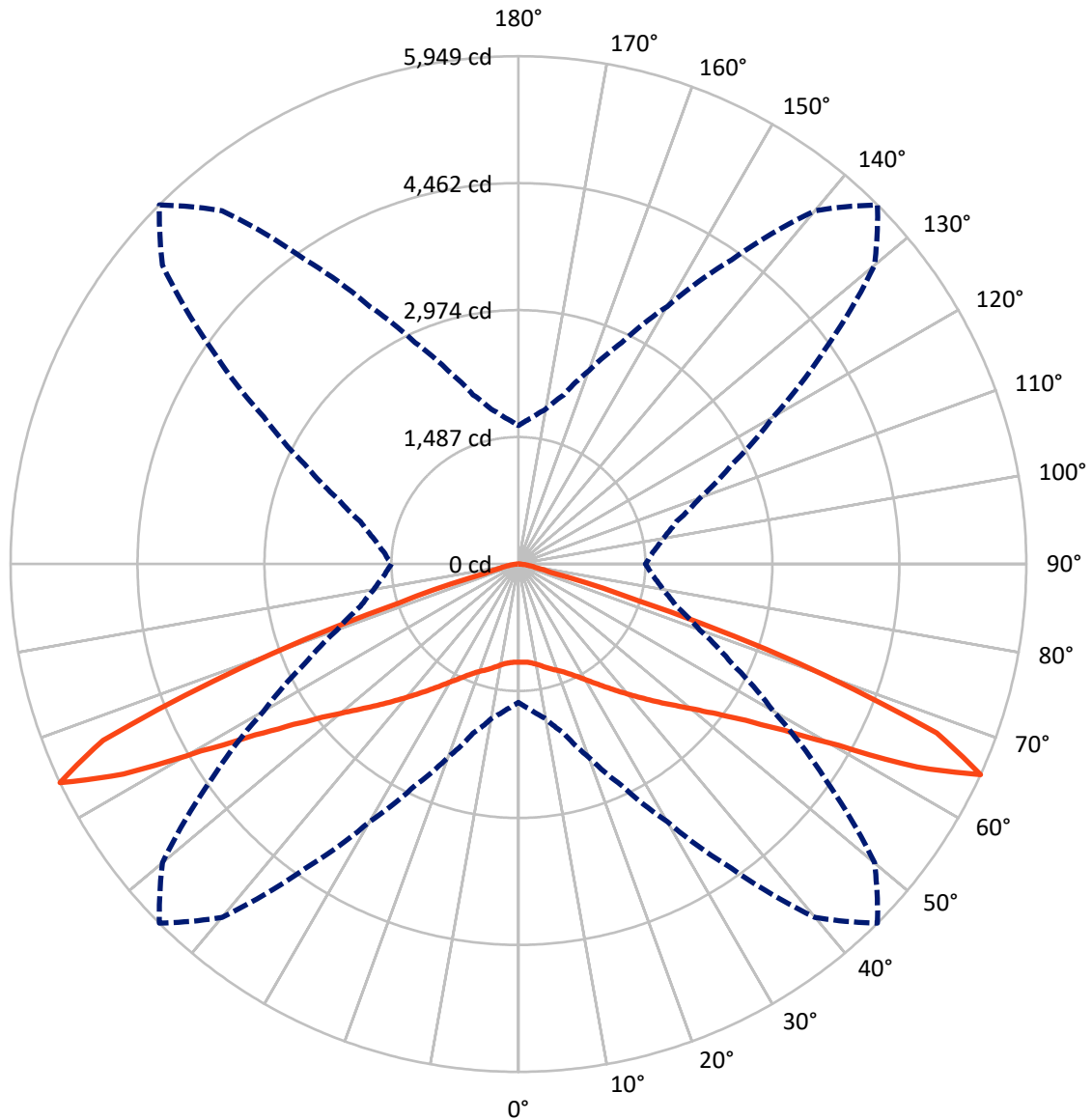
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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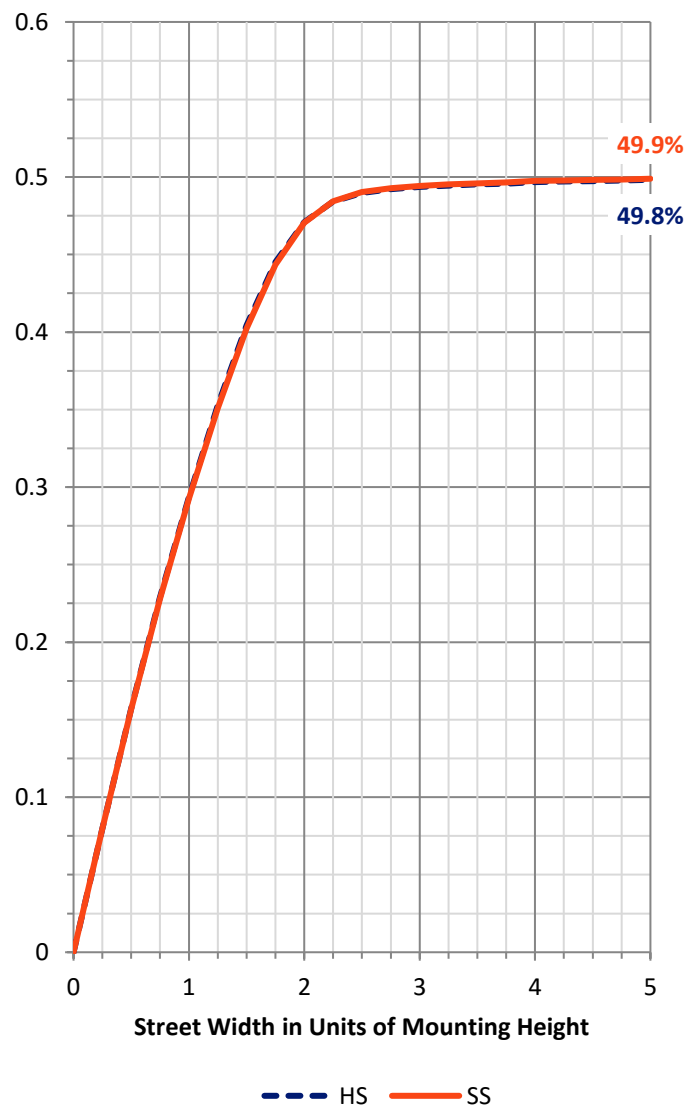
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5058.0	0.0	5058.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5058.0	0.0	5058.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10116.0	0.0	10116.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.1	1.1
10°-20°	359.1	3.6
20°-30°	670.0	6.6
30°-40°	1129.7	11.2
40°-50°	1834.9	18.1
50°-60°	2875.0	28.4
60°-70°	2713.8	26.8
70°-80°	365.7	3.6
80°-90°	55.7	0.6
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°	10116.0	100.0
0°-180°	10116.0	100.0

Coefficient of Utilization



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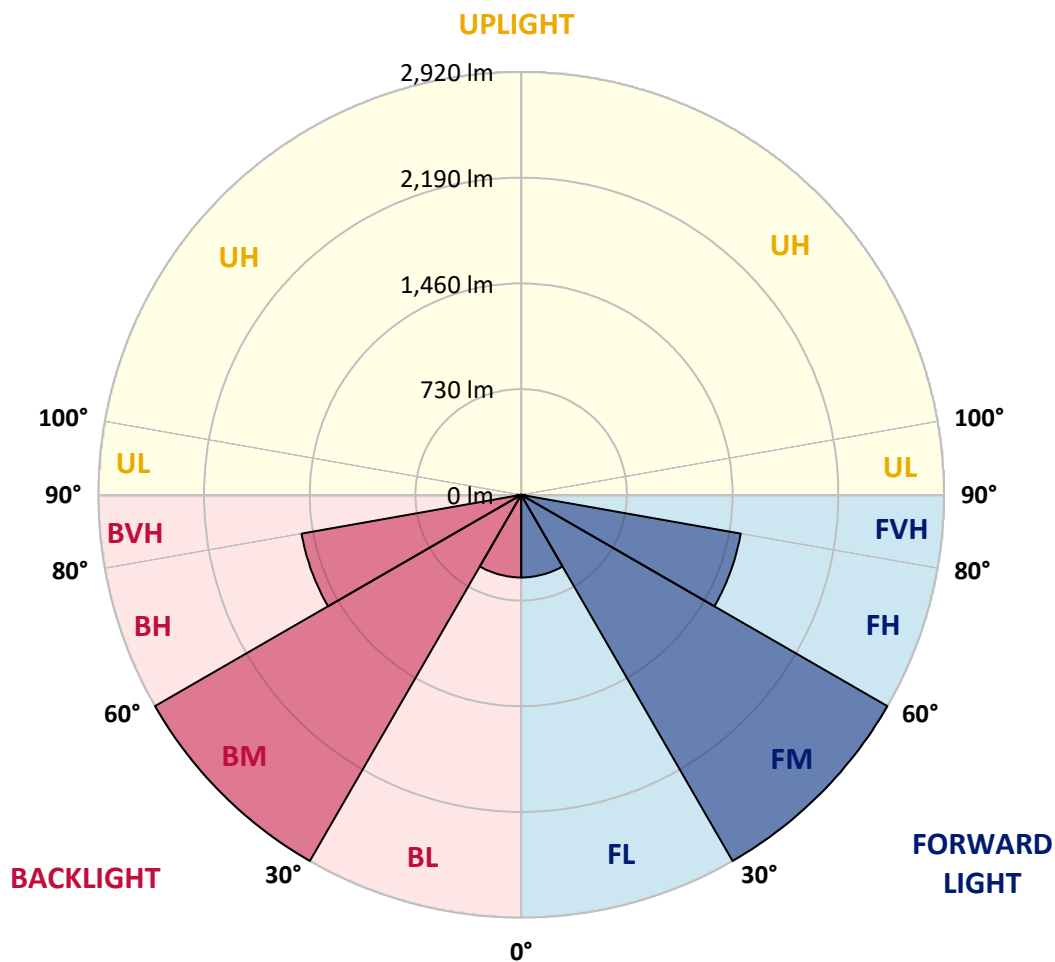
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	570.6	5.6			
FM	(30°-60°)	2919.8	28.9			
FH	(60°-80°)	1539.8	15.2			G1/1800
FVH	(80°-90°)	27.9	0.3			G1/100
BL	(0°-30°)	570.6	5.6	B2/1000		
BM	(30°-60°)	2919.8	28.9	B3/5000		
BH	(60°-80°)	1539.8	15.2	B3/2500		G1/1800
BVH	(80°-90°)	27.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1150.7	1150.7	1150.7	1150.7	1150.7	1150.7	1150.7	1150.7	1150.7	1150.7	1150.7
2.5°	1160.1	1160.1	1162.0	1161.4	1158.9	1157.0	1155.1	1152.6	1151.3	1150.1	1149.4
5°	1166.4	1166.4	1168.3	1167.7	1165.8	1163.3	1162.0	1160.1	1158.2	1157.0	1157.6
7.5°	1182.2	1182.8	1183.5	1182.8	1180.9	1179.0	1176.5	1175.9	1173.4	1171.5	1172.7
10°	1206.1	1206.1	1206.8	1207.4	1206.1	1201.7	1201.7	1200.5	1197.9	1195.4	1196.1
12.5°	1232.6	1232.6	1233.2	1233.2	1233.2	1230.7	1231.3	1230.7	1227.6	1226.3	1227.6
15°	1258.4	1259.1	1259.1	1260.3	1260.3	1261.0	1263.5	1263.5	1262.2	1261.6	1261.6
17.5°	1288.7	1289.9	1290.6	1292.5	1293.1	1294.4	1296.9	1297.5	1298.1	1296.3	1296.9
20°	1329.0	1329.7	1331.5	1332.2	1334.7	1334.7	1336.0	1335.3	1334.1	1331.5	1331.5
22.5°	1374.4	1375.7	1379.4	1379.4	1382.6	1380.7	1381.3	1379.4	1376.3	1375.0	1373.8
25°	1433.6	1435.5	1438.7	1437.4	1438.7	1435.5	1435.5	1435.5	1433.6	1431.7	1431.1
27.5°	1508.6	1505.5	1508.6	1506.1	1505.5	1502.9	1503.6	1502.3	1500.4	1499.8	1497.3
30°	1586.8	1583.0	1584.9	1585.5	1584.2	1583.6	1581.1	1579.2	1576.0	1576.7	1574.8
32.5°	1676.2	1672.5	1674.4	1675.0	1673.7	1675.0	1674.4	1669.9	1666.2	1668.7	1668.7
35°	1782.7	1780.2	1785.3	1787.2	1783.4	1781.5	1779.0	1773.9	1768.2	1772.0	1772.7
37.5°	1910.7	1907.5	1911.3	1916.3	1909.4	1905.6	1895.5	1888.0	1884.2	1886.1	1888.6
40°	2043.6	2044.3	2055.0	2056.2	2048.7	2044.3	2034.2	2022.8	2012.1	2012.1	2015.3
42.5°	2183.5	2185.4	2198.0	2202.4	2199.9	2191.7	2177.9	2164.0	2150.1	2152.6	2156.4
45°	2341.7	2339.2	2352.4	2363.1	2361.2	2358.7	2345.5	2320.3	2307.7	2307.0	2313.3
47.5°	2508.1	2513.1	2527.0	2545.2	2544.6	2538.3	2521.3	2498.0	2474.7	2476.6	2484.1
50°	2702.2	2709.1	2732.4	2750.7	2753.2	2751.3	2731.1	2704.0	2671.3	2673.2	2683.2
52.5°	2876.1	2886.2	2913.3	2951.1	2974.4	2985.1	2971.9	2946.7	2913.3	2915.1	2925.9
55°	3033.6	3049.4	3089.7	3141.4	3188.0	3231.5	3251.0	3250.4	3225.8	3231.5	3245.4
57.5°	3132.6	3154.6	3215.7	3298.9	3391.6	3479.1	3554.8	3626.0	3641.7	3671.3	3671.3
60°	2999.6	3051.3	3132.6	3275.0	3457.1	3653.7	3866.7	4074.0	4207.6	4312.9	4256.1
62.5°	2504.9	2581.2	2695.2	2883.0	3166.6	3517.6	3945.5	4427.5	4930.4	5237.9	5012.3
65°	1620.8	1716.6	1840.7	2051.8	2409.1	2861.0	3484.2	4350.7	5403.0	5948.8	5444.6
67.5°	642.1	707.0	782.7	932.6	1242.7	1686.3	2385.8	3454.6	4771.0	5285.8	4720.6
70°	306.9	317.6	332.1	364.2	441.7	596.1	958.5	1702.1	2925.9	3468.4	2855.9
72.5°	221.8	223.7	230.6	241.4	264.0	295.5	359.2	520.5	1008.9	1467.0	1010.2
75°	168.3	170.8	174.6	180.2	192.2	207.3	231.3	277.3	345.3	398.3	344.7
77.5°	127.9	130.4	133.6	139.3	145.6	156.3	165.1	183.4	212.4	223.7	222.4
80°	93.3	97.7	102.7	107.8	112.2	117.2	117.8	126.7	143.0	153.8	150.6
82.5°	59.2	63.0	76.3	81.9	82.6	83.8	83.2	83.8	92.6	100.2	97.7
85°	37.8	40.3	47.3	53.6	52.3	54.8	54.8	53.6	49.8	42.9	51.0
87.5°	18.9	19.5	22.7	28.4	27.1	23.9	23.3	23.3	17.0	14.5	15.8
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°	1150.7	1150.7	1150.7	1150.7	1150.7	1150.7	1150.7	1150.7
2.5°	1147.5	1148.8	1146.9	1146.9	1146.3	1147.5	1145.6	1145.6
5°	1156.4	1158.2	1157.6	1157.6	1158.9	1160.1	1159.5	1158.9
7.5°	1172.1	1173.4	1174.6	1175.3	1176.5	1175.9	1177.1	1176.5
10°	1196.1	1194.8	1196.7	1194.8	1195.4	1194.2	1194.8	1194.8
12.5°	1226.3	1224.4	1223.2	1221.9	1221.9	1219.4	1219.4	1220.0
15°	1261.0	1257.8	1255.3	1254.0	1252.8	1252.8	1250.9	1252.1
17.5°	1295.0	1291.8	1287.4	1287.4	1285.5	1284.3	1283.0	1286.2
20°	1330.9	1327.8	1325.2	1324.6	1320.8	1319.6	1320.2	1324.0
22.5°	1372.5	1370.6	1370.6	1369.4	1366.8	1364.9	1364.9	1369.4
25°	1428.6	1424.8	1425.4	1426.1	1424.8	1424.8	1423.5	1426.7
27.5°	1497.3	1494.1	1496.0	1497.3	1496.0	1497.9	1496.0	1498.5
30°	1577.9	1576.0	1577.9	1579.8	1576.7	1576.7	1575.4	1577.3
32.5°	1674.4	1671.8	1673.1	1673.1	1668.7	1664.9	1659.9	1663.6
35°	1780.2	1777.1	1779.6	1781.5	1776.4	1772.7	1765.1	1768.2
37.5°	1896.8	1898.1	1901.2	1909.4	1908.1	1901.8	1896.2	1898.7
40°	2027.2	2033.5	2047.4	2053.1	2051.8	2045.5	2038.0	2039.2
42.5°	2174.7	2182.9	2197.4	2206.8	2202.4	2193.6	2184.2	2187.9
45°	2335.4	2348.0	2366.9	2376.4	2370.7	2361.2	2348.0	2354.9
47.5°	2505.5	2530.7	2556.0	2568.6	2566.7	2553.4	2536.4	2538.3
50°	2709.1	2742.5	2774.6	2787.2	2777.8	2757.6	2733.7	2733.0
52.5°	2962.4	2998.3	3024.8	3021.6	2998.3	2966.8	2939.7	2938.5
55°	3278.8	3290.7	3286.9	3259.8	3218.9	3169.7	3135.1	3129.4
57.5°	3661.3	3620.9	3561.7	3479.8	3387.8	3294.5	3231.5	3208.2
60°	4128.8	3946.7	3735.0	3511.9	3308.4	3155.9	3059.5	3000.8
62.5°	4515.1	3987.7	3514.4	3126.9	2809.9	2621.5	2489.8	2408.5
65°	4382.8	3445.1	2759.5	2259.8	1913.8	1719.1	1579.8	1487.2
67.5°	3385.9	2302.0	1601.9	1110.4	841.9	712.7	622.6	564.0
70°	1707.1	882.9	535.0	377.5	322.6	300.0	284.8	276.0
72.5°	501.0	334.6	277.9	245.8	226.2	212.4	203.5	199.1
75°	277.3	226.2	199.8	181.5	168.9	159.4	153.8	150.0
77.5°	190.9	164.5	151.2	139.3	129.2	122.3	117.8	114.1
80°	133.6	120.4	114.7	108.4	100.8	95.2	88.9	86.3
82.5°	88.9	83.2	81.9	76.9	72.5	66.2	54.8	51.0
85°	52.3	51.7	51.7	49.8	46.6	41.0	32.8	32.8
87.5°	18.3	18.9	19.5	20.8	20.2	17.0	13.9	13.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)