

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: P271289

Luminaire Tested: **XNV2-AF-02-LED-U-5WQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271289
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24131)
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-5WQ-7027
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10899.4 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - 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

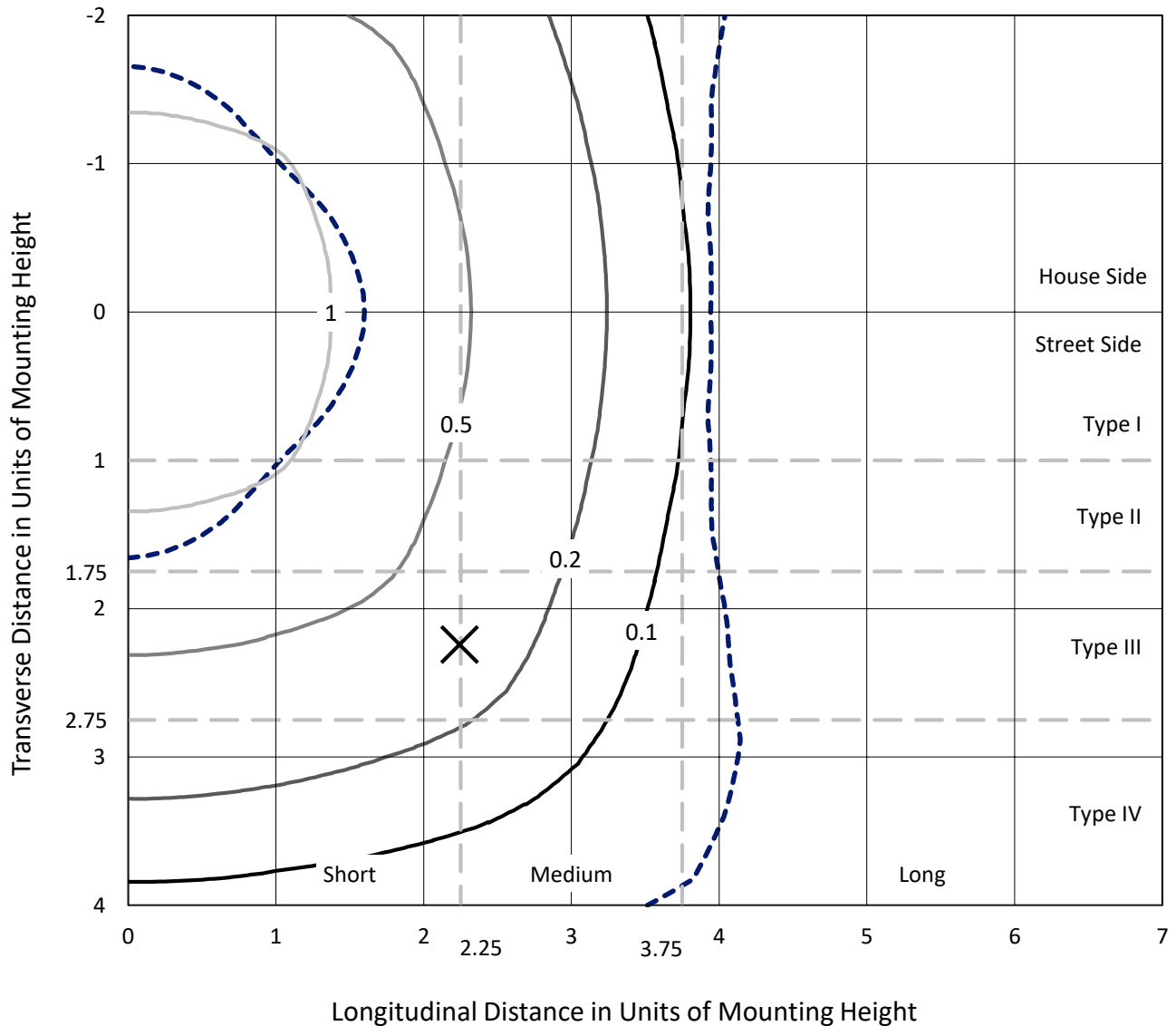


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

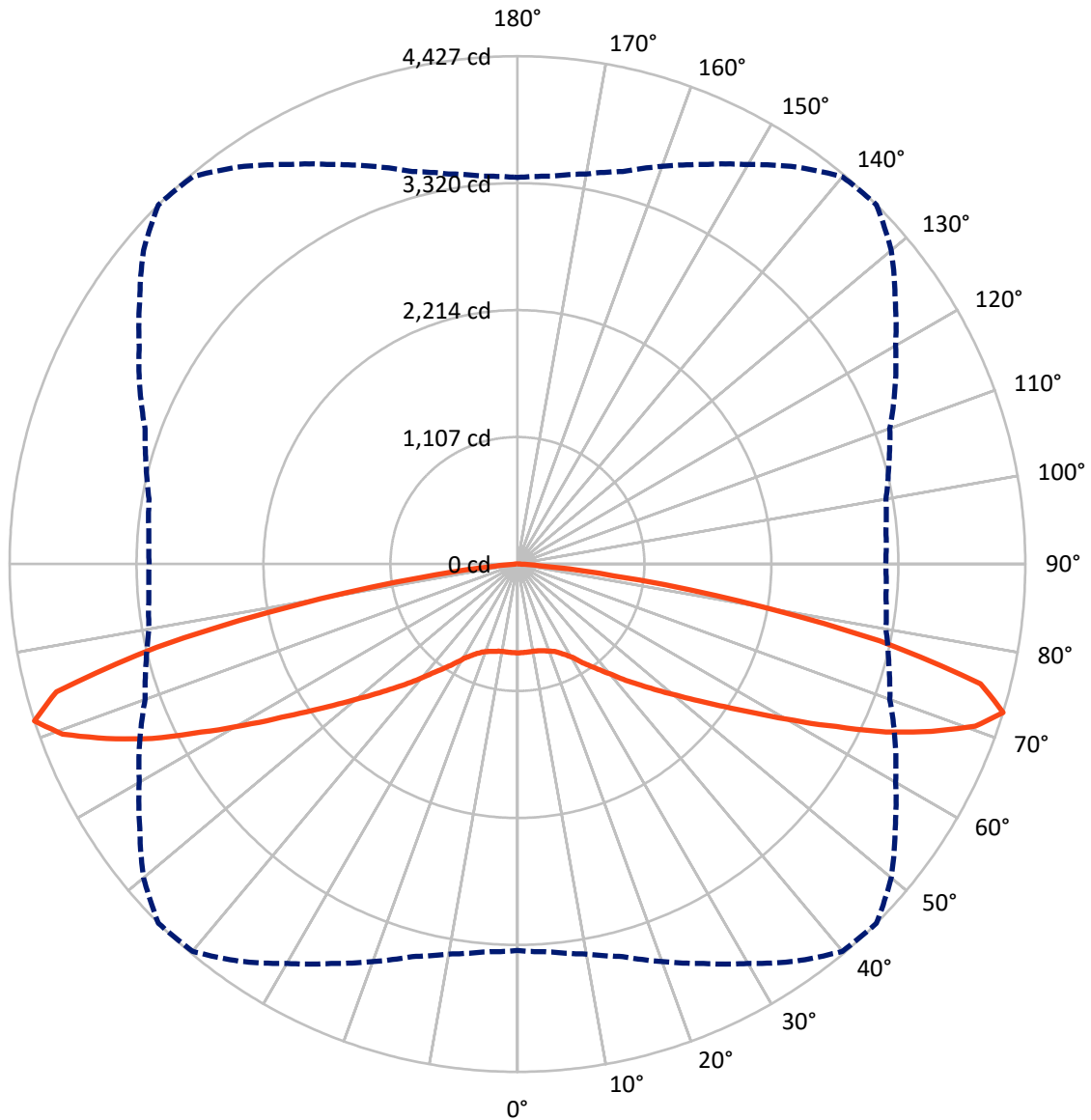


Based on 20 foot mounting height. Maximum calculated value = 1.9 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical



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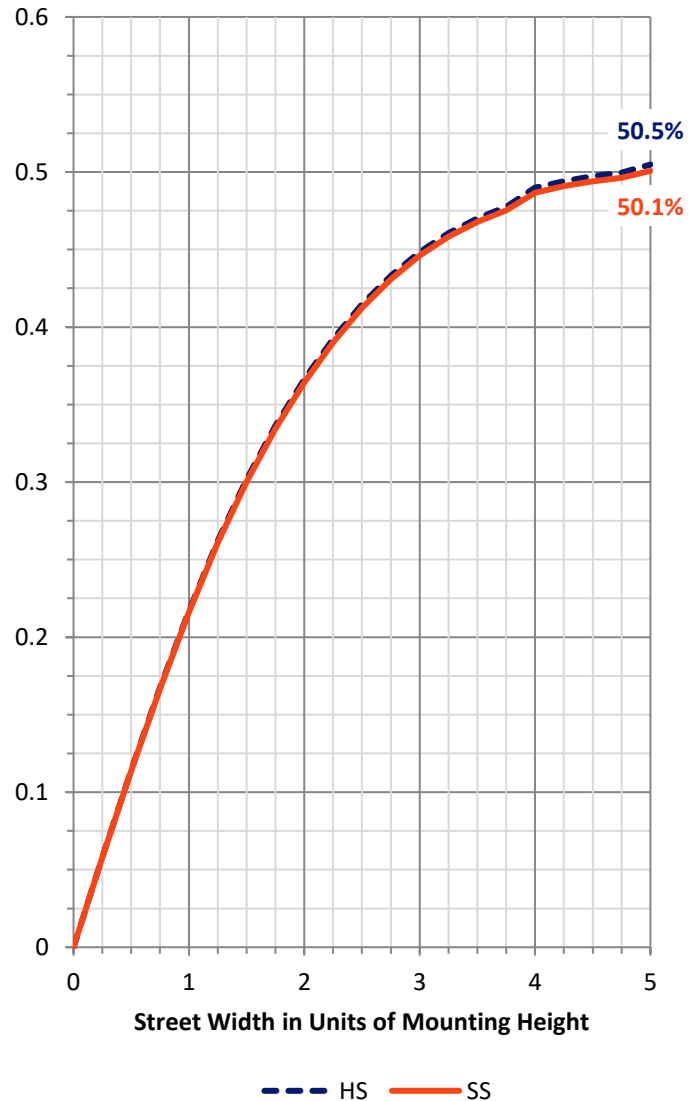
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5449.7	0.0	5449.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5449.7	0.0	5449.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	10899.4	0.0	10899.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.0	0.7
10°-20°	223.8	2.1
20°-30°	404.1	3.7
30°-40°	689.2	6.3
40°-50°	1173.5	10.8
50°-60°	1888.5	17.3
60°-70°	3140.6	28.8
70°-80°	3038.2	27.9
80°-90°	267.4	2.5
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°	10899.4	100.0
0°-180°	10899.4	100.0



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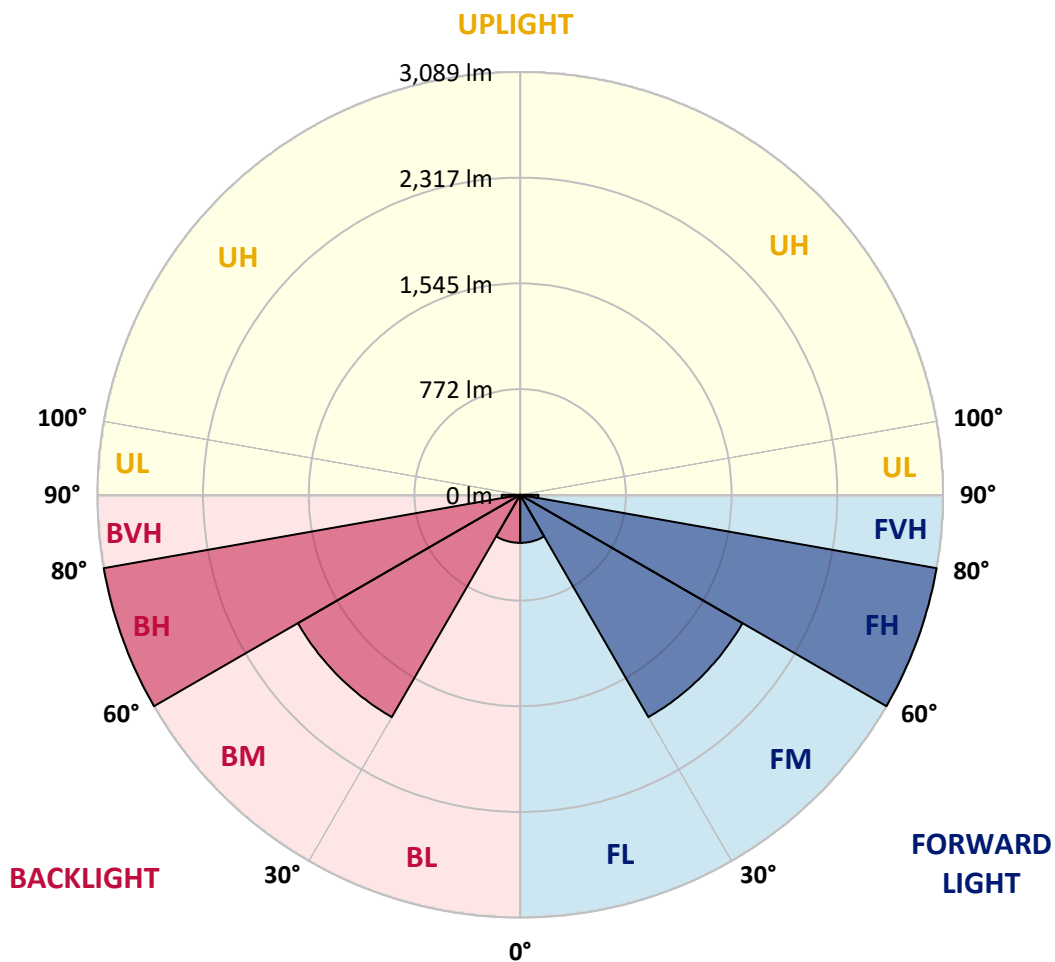
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	350.9	3.2			
FM	(30°-60°)	1875.6	17.2			
FH	(60°-80°)	3089.4	28.3			G2/5000
FVH	(80°-90°)	133.7	1.2			G2/225
BL	(0°-30°)	350.9	3.2	B1/500		
BM	(30°-60°)	1875.6	17.2	B2/2500		
BH	(60°-80°)	3089.4	28.3	B4/5000		G2/5000
BVH	(80°-90°)	133.7	1.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	774.9	774.9	774.9	774.9	774.9	774.9	774.9	774.9	774.9	774.9	774.9
2.5°	780.8	780.8	781.5	780.8	779.5	778.9	776.9	775.5	774.2	773.5	772.2
5°	781.5	781.5	782.2	781.5	780.3	778.9	777.6	775.5	774.2	772.8	772.2
7.5°	784.3	784.8	785.6	784.8	782.2	780.8	778.9	776.9	774.2	772.8	771.6
10°	789.6	789.6	789.6	788.9	786.9	784.3	781.5	779.5	776.1	772.8	770.8
12.5°	793.7	794.3	794.3	792.9	790.2	786.9	784.3	782.2	779.5	776.9	774.9
15°	799.8	799.8	799.0	796.3	792.3	789.6	788.4	787.6	786.9	785.6	783.6
17.5°	811.8	811.1	809.1	805.1	800.4	798.4	796.9	796.9	796.9	796.3	795.0
20°	829.1	829.1	826.5	819.9	815.8	813.8	811.8	811.8	811.8	809.7	807.8
22.5°	857.4	858.1	854.0	845.9	840.6	836.6	833.8	831.9	829.9	828.5	825.2
25°	895.6	894.9	890.3	880.2	876.1	872.2	866.8	863.5	860.8	858.7	854.6
27.5°	935.9	935.1	929.8	921.1	918.4	912.4	908.4	903.7	900.3	897.0	892.9
30°	987.5	984.2	980.1	973.5	972.1	967.5	962.1	955.3	950.0	944.6	939.8
32.5°	1033.8	1033.8	1027.8	1024.4	1027.1	1025.1	1025.8	1021.7	1018.4	1016.4	1011.8
35°	1098.2	1098.2	1095.6	1091.5	1092.2	1087.5	1086.8	1087.5	1090.2	1090.2	1084.9
37.5°	1184.1	1185.5	1176.7	1175.4	1172.0	1165.3	1162.0	1163.2	1169.4	1172.6	1165.3
40°	1290.8	1293.5	1290.8	1282.1	1278.0	1266.6	1260.0	1260.0	1264.6	1268.0	1265.3
42.5°	1396.1	1400.7	1396.1	1389.4	1386.1	1377.3	1374.0	1376.7	1382.8	1386.8	1382.8
45°	1513.6	1516.9	1510.8	1502.8	1498.7	1494.1	1492.1	1494.1	1500.8	1504.8	1503.5
47.5°	1628.8	1633.6	1626.2	1622.9	1622.9	1618.1	1623.5	1628.8	1634.9	1644.3	1640.2
50°	1741.6	1747.7	1742.9	1743.6	1749.0	1757.8	1767.8	1778.5	1789.2	1799.2	1800.7
52.5°	1842.2	1851.6	1852.2	1864.3	1881.1	1894.5	1922.7	1946.2	1971.7	1980.5	1976.5
55°	1948.2	1961.0	1977.8	1996.6	2023.3	2050.9	2098.5	2140.8	2174.3	2195.1	2191.8
57.5°	2099.9	2112.5	2130.1	2161.0	2201.1	2238.8	2303.9	2369.5	2420.6	2452.1	2436.7
60°	2296.3	2309.8	2332.5	2365.4	2417.9	2468.8	2558.1	2652.7	2731.8	2768.0	2739.9
62.5°	2556.7	2569.4	2584.2	2627.8	2686.2	2752.0	2863.9	2985.3	3086.0	3120.9	3081.4
65°	2927.7	2943.1	2947.8	2983.5	3040.5	3101.5	3222.2	3359.1	3473.7	3530.8	3451.6
67.5°	3345.6	3351.7	3370.5	3412.1	3470.4	3525.5	3620.7	3750.2	3860.2	3891.7	3807.2
70°	3590.5	3602.7	3635.5	3693.2	3762.9	3849.4	3953.5	4092.9	4217.8	4232.5	4125.2
72.5°	3369.2	3393.9	3452.4	3542.2	3688.5	3842.1	4021.3	4227.2	4406.4	4427.0	4254.7
75°	2702.3	2730.5	2800.2	2898.9	3071.9	3300.1	3558.9	3868.3	4136.6	4170.8	3942.8
77.5°	1440.3	1475.2	1576.5	1709.4	1956.2	2258.2	2570.1	2923.1	3151.2	3228.2	3063.8
80°	362.9	381.7	430.6	508.5	675.5	919.1	1188.1	1567.8	1851.0	1971.1	1851.0
82.5°	140.9	155.0	168.4	177.8	193.9	227.5	314.0	511.9	689.7	849.3	735.4
85°	54.3	57.8	83.3	94.6	94.6	103.9	119.5	140.9	174.5	190.5	159.7
87.5°	21.5	23.4	28.8	44.2	45.6	40.2	42.8	48.2	36.9	30.8	34.9
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°	774.9	774.9	774.9	774.9	774.9	774.9	774.9	774.9
2.5°	771.6	770.8	769.5	770.1	769.5	769.5	769.5	769.5
5°	770.8	770.8	769.5	769.5	769.5	770.1	769.5	769.5
7.5°	770.1	769.5	768.1	767.5	767.5	766.9	766.9	766.9
10°	768.8	767.5	766.2	765.4	765.4	764.1	764.1	764.1
12.5°	772.2	770.1	768.8	768.1	768.1	768.1	768.8	768.8
15°	781.5	777.6	775.5	774.9	775.5	776.9	777.6	778.2
17.5°	791.6	787.6	784.3	783.0	783.6	785.6	787.6	788.9
20°	804.4	801.0	796.9	795.7	795.7	798.4	799.8	801.6
22.5°	822.5	819.9	816.5	814.5	813.1	816.5	818.4	819.9
25°	851.4	848.7	845.9	844.0	843.2	846.7	848.0	848.7
27.5°	889.6	886.8	885.5	884.9	882.9	884.2	886.2	885.5
30°	939.2	941.2	939.2	939.2	935.9	937.2	935.9	934.5
32.5°	1005.7	1003.6	997.6	993.5	988.9	988.9	986.9	984.8
35°	1072.0	1065.4	1061.9	1064.0	1061.9	1063.4	1060.0	1056.6
37.5°	1150.5	1146.5	1145.9	1151.8	1150.5	1151.8	1151.8	1147.1
40°	1254.6	1251.9	1256.5	1266.6	1270.7	1269.9	1271.3	1265.3
42.5°	1374.0	1369.2	1371.3	1379.9	1384.6	1386.1	1385.4	1379.9
45°	1493.3	1494.7	1494.7	1504.1	1508.9	1511.5	1506.7	1504.8
47.5°	1628.2	1630.2	1625.6	1631.6	1632.8	1637.6	1633.6	1630.2
50°	1783.9	1776.5	1765.8	1767.8	1767.8	1766.3	1761.8	1757.8
52.5°	1957.6	1940.9	1920.8	1914.0	1906.7	1899.2	1889.9	1882.5
55°	2155.6	2126.6	2090.4	2073.6	2059.6	2042.8	2021.4	2014.0
57.5°	2385.0	2335.4	2287.1	2256.8	2220.6	2198.4	2170.9	2169.5
60°	2657.4	2590.3	2505.1	2460.1	2423.8	2397.8	2376.9	2368.9
62.5°	2972.0	2856.6	2764.7	2716.4	2674.2	2658.1	2631.9	2635.2
65°	3294.7	3177.2	3088.1	3049.1	3009.5	2998.8	2974.6	2983.5
67.5°	3644.2	3547.5	3449.6	3413.4	3377.2	3366.5	3341.7	3349.1
70°	3957.6	3834.8	3723.4	3652.2	3590.5	3540.8	3509.4	3496.7
72.5°	4019.8	3807.2	3632.1	3454.3	3351.7	3261.7	3224.8	3210.8
75°	3611.9	3281.9	3032.4	2823.7	2708.3	2577.4	2563.5	2544.0
77.5°	2809.5	2434.0	2132.0	1863.8	1708.8	1549.0	1494.1	1452.5
80°	1675.9	1288.1	998.2	699.7	571.0	459.6	432.1	403.2
82.5°	599.8	384.5	258.9	201.8	180.5	166.4	155.6	141.6
85°	144.8	122.1	115.4	104.7	103.3	87.9	62.4	55.7
87.5°	46.4	42.3	42.8	41.0	42.8	32.2	26.2	23.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)