

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: P271322

Luminaire Tested: **XNV2-AF-02-LED-U-SL4-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271322
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24284)
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-SL4-7027-600
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6584.7 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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

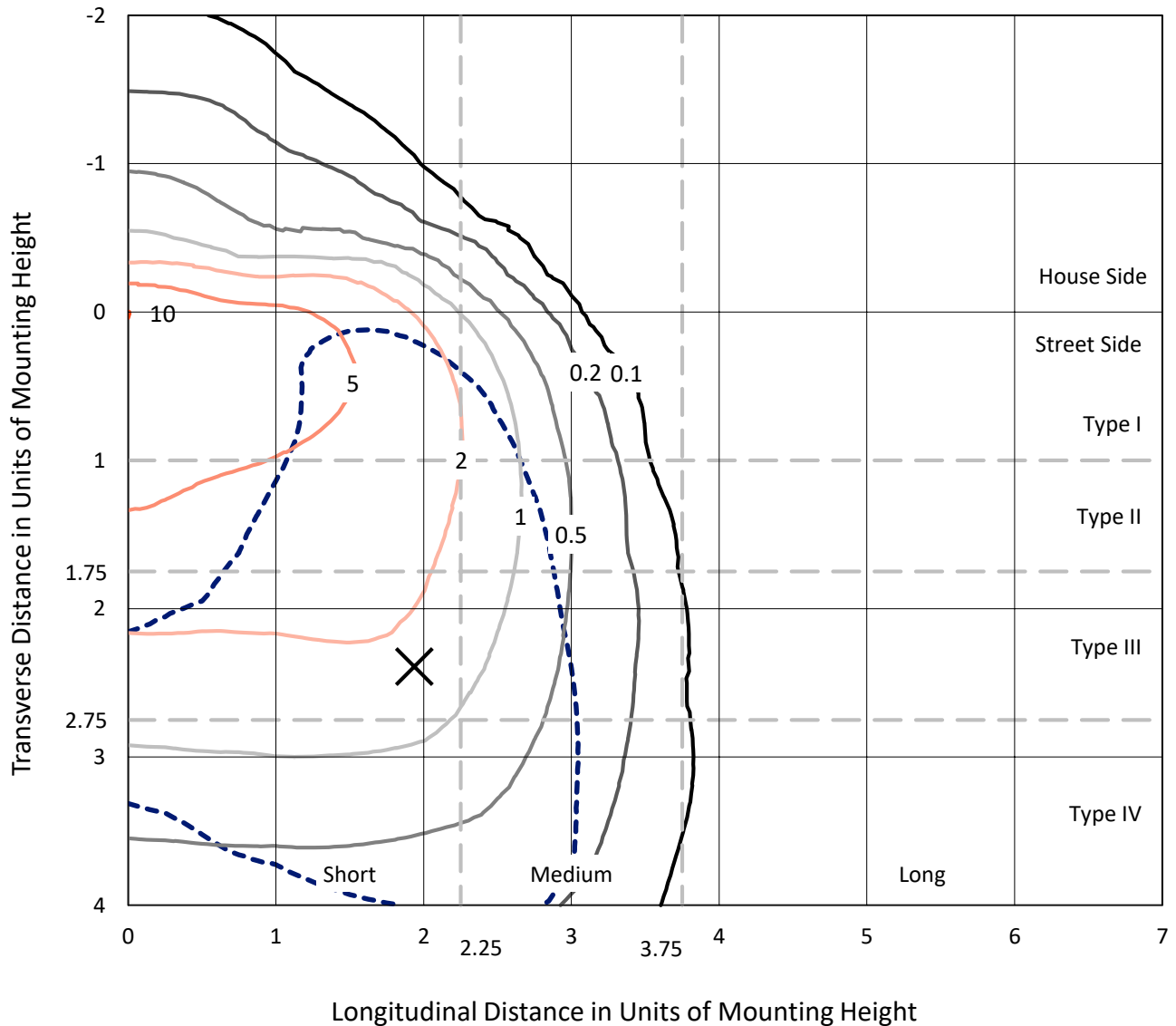


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

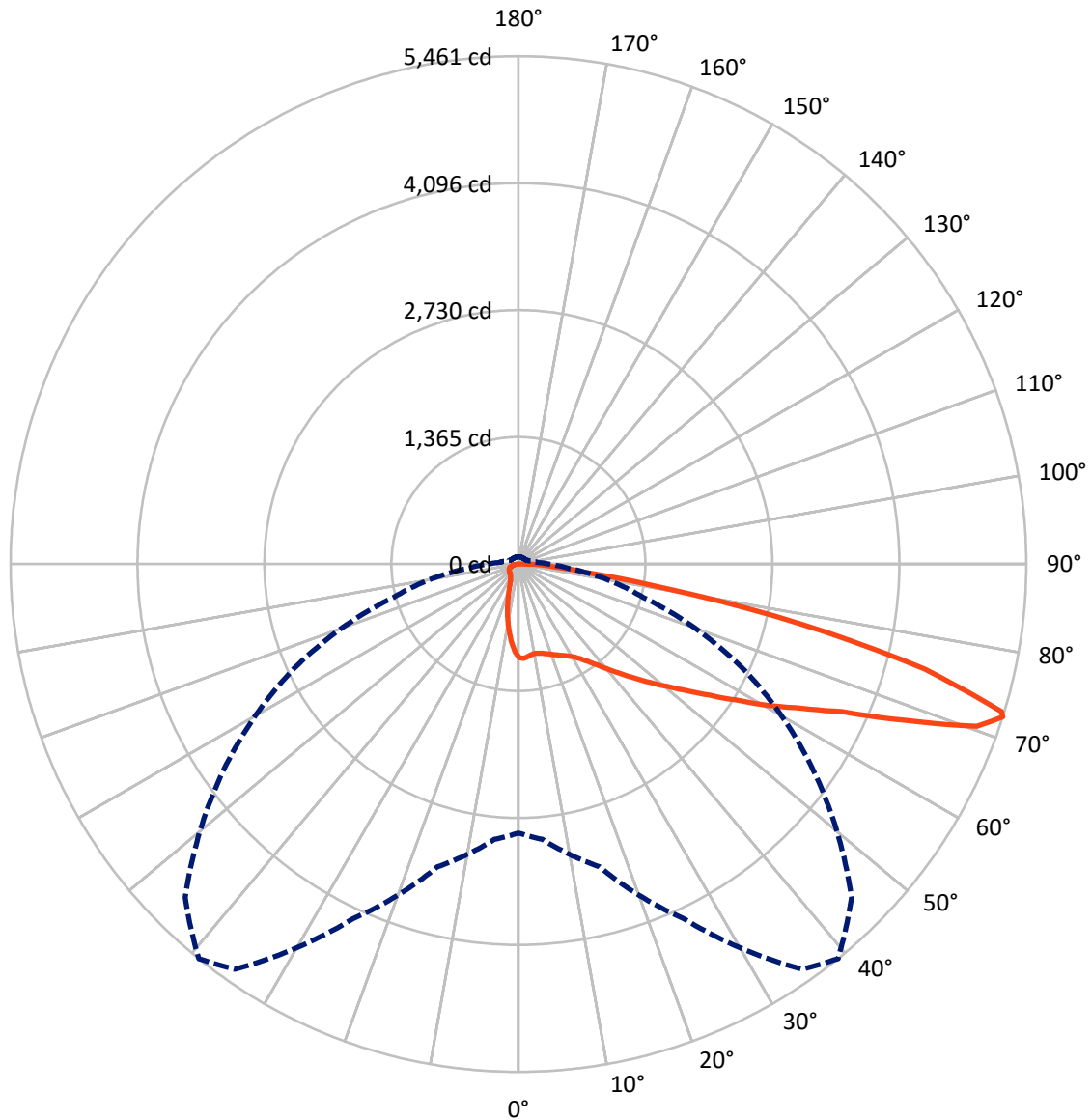


Based on 10 foot mounting height. Maximum calculated value = 10.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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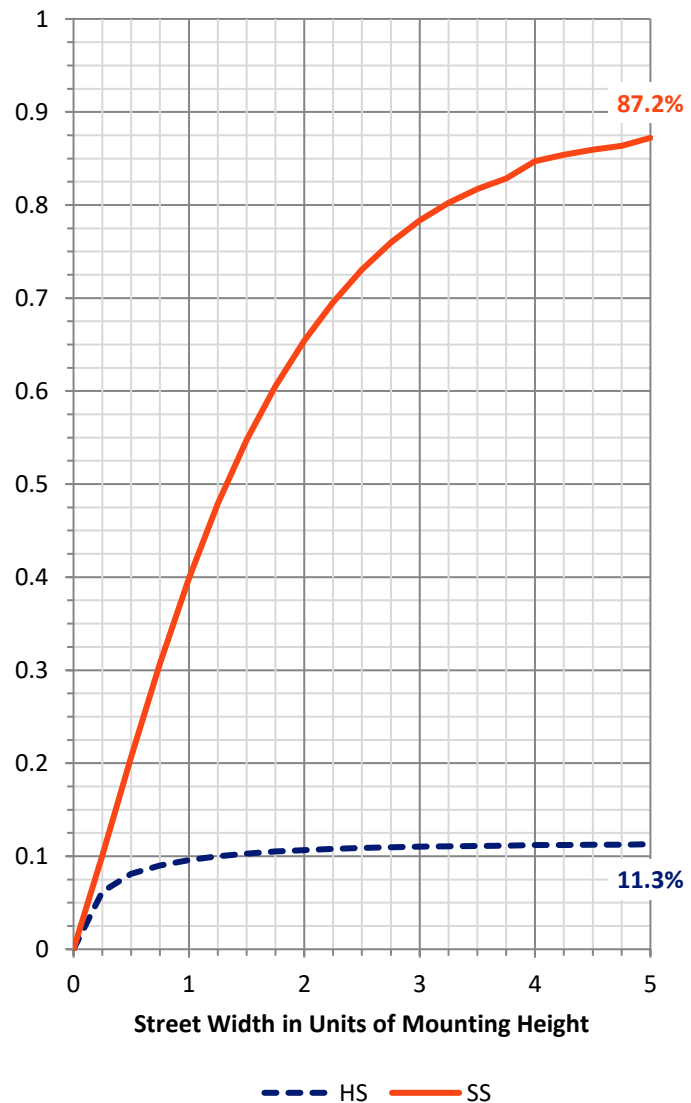
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	755.0	0.0	755.0
	% Fixture	11.5	0.0	11.5
Street Side	Lumens	5829.7	0.0	5829.7
	% Fixture	88.5	0.0	88.5
Total	Lumens	6584.7	0.0	6584.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.4	1.3
10°-20°	217.2	3.3
20°-30°	338.4	5.1
30°-40°	521.0	7.9
40°-50°	849.4	12.9
50°-60°	1319.9	20.0
60°-70°	1766.6	26.8
70°-80°	1270.4	19.3
80°-90°	215.4	3.3
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°	6584.7	100.0
0°-180°	6584.7	100.0

Coefficient of Utilization



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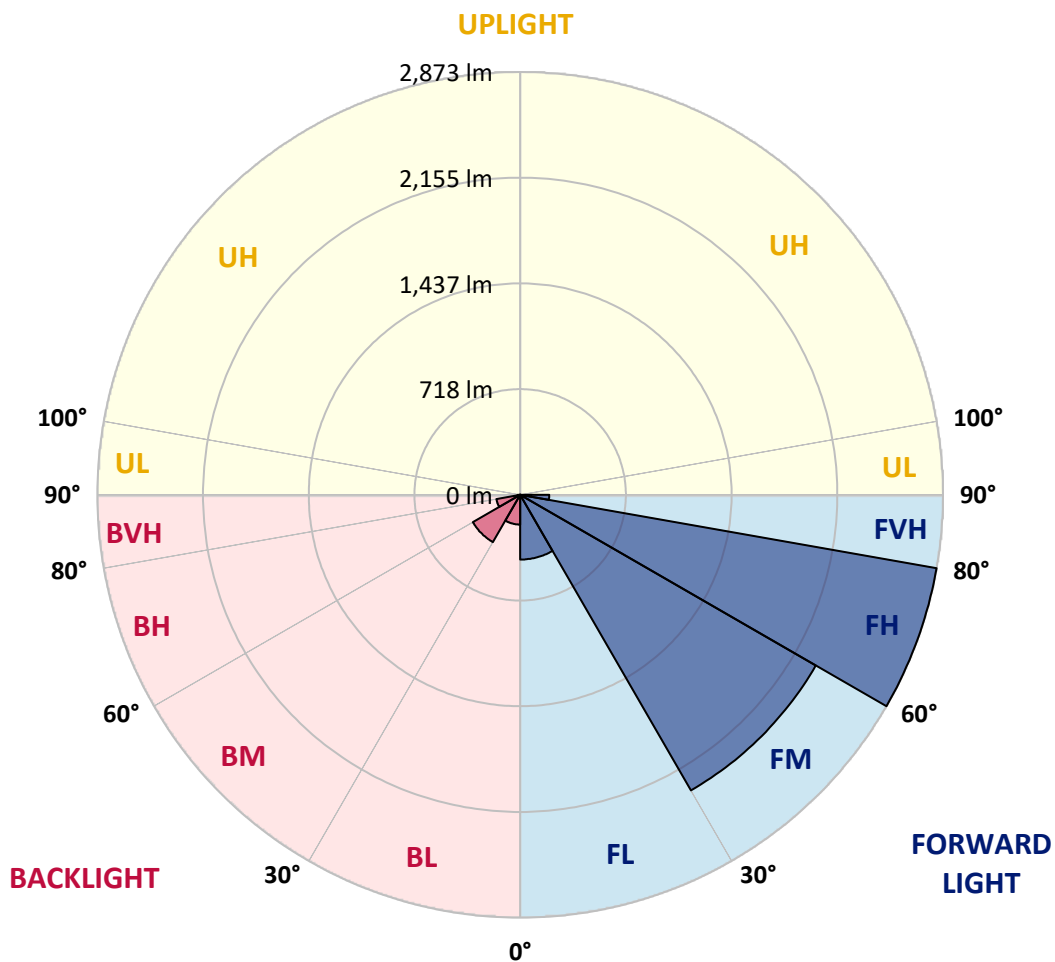
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	439.8	6.7			
FM	(30°-60°)	2319.3	35.2			
FH	(60°-80°)	2873.0	43.6			G2/5000
FVH	(80°-90°)	197.6	3.0			G2/225
BL	(0°-30°)	202.1	3.1	B1/500		
BM	(30°-60°)	371.0	5.6	B1/1000		
BH	(60°-80°)	164.0	2.5	B1/500		G1/500
BVH	(80°-90°)	17.8	0.3			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1005.7	1005.7	1005.7	1005.7	1005.7	1005.7	1005.7	1005.7	1005.7	1005.7	1005.7
2.5°	1027.3	1027.8	1026.5	1022.5	1018.9	1017.2	1013.9	1008.6	1001.6	996.8	992.7
5°	1017.5	1018.9	1018.0	1011.3	1005.2	1001.6	996.8	989.3	980.1	976.0	966.8
7.5°	1010.1	1011.0	1008.3	1000.7	988.9	984.5	975.6	965.9	957.5	951.7	940.6
10°	1004.8	1005.7	1003.3	996.0	982.7	977.4	966.8	956.1	945.0	938.0	925.7
12.5°	997.2	998.9	998.9	995.4	986.6	983.0	972.4	960.9	950.8	943.3	927.8
15°	996.0	998.0	1002.1	1001.6	998.9	996.3	988.0	976.5	967.7	958.8	939.7
17.5°	1006.9	1011.9	1019.8	1022.5	1020.7	1014.8	1005.2	994.6	984.8	976.5	953.0
20°	1034.8	1037.5	1049.4	1054.7	1045.8	1037.5	1024.6	1011.0	1002.1	995.4	965.4
22.5°	1076.8	1080.3	1090.1	1090.5	1071.9	1061.7	1045.4	1028.6	1020.1	1017.5	982.1
25°	1143.9	1143.1	1145.8	1134.6	1101.1	1089.1	1069.3	1049.8	1044.1	1049.4	1006.9
27.5°	1224.4	1222.2	1213.8	1185.0	1134.2	1118.7	1094.9	1077.6	1077.6	1090.1	1040.5
30°	1317.3	1314.9	1287.6	1239.4	1173.5	1155.8	1130.6	1112.6	1121.9	1145.8	1086.1
32.5°	1415.4	1407.5	1368.9	1304.3	1229.7	1210.2	1185.9	1167.3	1185.0	1225.7	1151.4
35°	1507.7	1503.4	1456.1	1379.5	1302.3	1285.8	1269.0	1246.0	1274.3	1337.5	1243.9
37.5°	1603.2	1599.7	1541.9	1460.5	1390.7	1379.5	1365.5	1349.6	1395.1	1478.2	1368.9
40°	1709.7	1702.6	1629.7	1548.4	1493.6	1488.3	1480.8	1476.4	1549.8	1673.5	1527.2
42.5°	1830.4	1816.7	1722.6	1645.2	1605.9	1610.3	1606.3	1624.0	1736.2	1898.9	1715.6
45°	1968.4	1941.0	1814.9	1748.2	1730.0	1747.8	1756.1	1801.2	1956.9	2159.3	1925.8
47.5°	2097.5	2062.1	1916.2	1860.0	1870.2	1900.8	1924.6	2004.2	2198.6	2416.6	2140.8
50°	2216.3	2176.6	2024.5	1975.8	2025.4	2068.6	2118.3	2230.5	2455.8	2681.4	2337.8
52.5°	2304.3	2275.5	2132.8	2102.3	2203.5	2260.9	2340.1	2481.9	2715.8	2933.8	2513.7
55°	2372.3	2357.0	2238.4	2247.3	2405.0	2487.2	2583.2	2746.3	2990.7	3160.1	2655.3
57.5°	2451.0	2439.5	2359.0	2422.3	2655.3	2758.7	2871.8	3053.1	3252.5	3359.4	2766.2
60°	2534.2	2534.2	2493.4	2633.1	2968.2	3086.7	3199.5	3340.3	3513.2	3538.9	2811.2
62.5°	2596.9	2613.3	2627.8	2857.7	3265.2	3412.4	3536.2	3671.5	3783.3	3627.3	2705.2
65°	2688.0	2722.9	2805.0	3117.2	3633.0	3825.7	3992.8	4106.4	4002.0	3557.0	2359.0
67.5°	2844.5	2896.1	3071.1	3503.5	4196.2	4484.8	4647.0	4450.7	3959.2	3114.6	1807.0
70°	2985.4	3058.4	3357.7	3993.8	4928.1	5227.9	5153.1	4370.8	3448.2	2283.0	1111.7
72°	2891.7	2971.4	3370.9	4207.2	5319.4	5460.7	5067.0	3873.5	2664.6	1393.4	548.1
72.5°	2830.3	2912.9	3328.0	4201.9	5330.0	5431.2	4947.1	3676.0	2418.7	1219.1	443.4
75°	2364.3	2435.1	2861.7	3724.1	4697.0	4511.3	3860.6	2379.0	1111.7	393.8	228.1
77.5°	1543.9	1597.9	1973.1	2580.1	3290.0	3111.4	2349.8	1113.9	416.9	239.0	171.4
80°	775.7	814.3	1056.0	1356.6	1775.6	1633.7	1084.8	538.9	279.0	172.8	134.8
82.5°	539.7	575.0	727.2	692.7	742.2	718.3	510.1	449.5	208.6	109.1	70.7
85°	452.7	489.3	601.5	493.8	404.0	368.2	365.6	424.8	137.9	53.9	59.6
87.5°	394.7	450.4	496.5	360.7	277.1	244.5	269.2	389.4	43.7	29.6	18.1
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°	1005.7	1005.7	1005.7	1005.7	1005.7	1005.7	1005.7	1005.7	1005.7	1005.7	1005.7
2.5°	986.2	984.8	978.3	968.1	960.5	955.6	946.4	945.9	946.9	938.9	942.0
5°	958.3	953.0	935.8	912.4	893.4	875.2	855.4	848.7	842.9	831.0	832.3
7.5°	929.1	919.9	889.9	851.4	814.7	781.0	747.8	731.6	719.2	703.7	703.7
10°	911.9	897.2	851.4	795.2	736.9	687.8	638.2	608.7	587.0	567.1	565.8
12.5°	911.1	889.0	824.9	747.5	667.5	598.5	530.9	485.4	453.0	429.7	427.5
15°	918.1	887.2	802.7	702.8	602.0	512.4	428.9	370.9	329.8	303.6	301.0
17.5°	924.3	884.9	778.8	655.9	538.4	429.2	336.3	276.3	237.3	216.1	213.9
20°	930.0	880.1	748.4	606.4	468.0	351.3	263.1	214.3	188.7	176.7	175.4
22.5°	938.4	875.7	716.5	550.8	399.1	286.0	217.0	182.1	168.4	162.7	161.8
25°	952.2	876.0	685.5	493.8	336.0	238.2	187.8	166.1	158.7	154.7	154.7
27.5°	972.1	881.3	655.0	435.9	282.4	205.5	170.6	157.8	152.9	149.8	148.9
30°	1001.3	891.1	622.9	381.1	239.9	183.1	160.4	152.5	148.5	145.9	145.4
32.5°	1043.7	908.4	588.7	331.0	207.8	167.1	152.9	148.1	144.9	142.8	142.3
35°	1106.8	938.9	555.6	288.6	184.8	155.5	146.8	142.8	141.0	140.1	139.6
37.5°	1199.6	988.0	524.3	255.5	169.7	148.1	140.6	138.3	137.5	137.5	137.5
40°	1316.3	1052.5	496.0	232.0	161.3	142.3	136.2	134.3	134.3	134.8	134.8
42.5°	1458.3	1133.3	471.6	216.1	156.5	138.3	133.0	132.2	131.7	131.7	132.2
45°	1623.1	1228.8	456.6	203.7	152.9	136.2	130.9	130.4	128.6	127.7	127.7
47.5°	1788.9	1331.0	455.7	196.6	148.5	133.5	128.6	128.6	125.1	123.3	123.7
50°	1943.7	1422.5	465.4	194.9	145.9	129.5	126.4	126.9	122.0	119.7	119.4
52.5°	2068.3	1492.3	477.4	197.2	145.9	126.0	122.4	124.7	119.4	116.7	116.2
55°	2164.6	1541.0	481.9	201.9	147.6	122.9	118.8	122.4	118.4	115.0	115.0
57.5°	2233.5	1556.4	462.7	204.3	150.2	122.4	115.3	122.0	119.7	115.3	115.3
60°	2208.4	1466.7	392.1	195.8	149.8	121.6	112.6	122.9	124.2	119.4	119.4
62.5°	2011.7	1227.1	314.8	176.7	142.3	118.4	109.7	122.0	127.3	125.6	124.7
65°	1637.7	899.9	244.0	154.2	129.5	111.7	102.9	114.1	120.3	122.0	122.4
67.5°	1154.1	569.7	189.6	131.3	113.5	102.0	95.5	100.8	102.9	103.8	105.6
70°	631.1	308.6	150.7	110.5	97.2	92.3	87.6	87.9	87.0	86.1	87.0
72°	316.9	201.6	127.3	95.8	86.1	83.2	80.8	79.6	79.6	78.2	78.7
72.5°	272.7	187.4	122.9	92.3	83.5	80.8	79.1	77.9	77.3	76.4	77.0
75°	181.6	148.5	102.5	77.3	71.1	69.3	70.2	69.0	69.3	68.5	69.0
77.5°	146.8	127.7	87.0	65.4	61.1	58.3	60.0	60.5	61.4	60.5	60.0
80°	122.9	108.8	72.9	53.9	50.8	48.6	49.4	52.6	53.0	50.3	49.9
82.5°	79.6	87.6	57.4	42.0	38.8	38.0	40.2	43.3	44.1	40.7	39.7
85°	66.7	70.2	41.5	28.7	25.6	24.8	29.1	32.2	34.5	30.9	30.1
87.5°	18.5	34.5	20.3	13.7	11.5	11.5	14.2	16.8	19.9	20.3	20.3
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)