

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: P199267

Luminaire Tested: **XNV2-AF-02-LED-U-T4FT-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199267
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24256)
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-T4FT-8030-600
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6535 lumens
Efficiency: N/A
Efficacy: 99.0 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

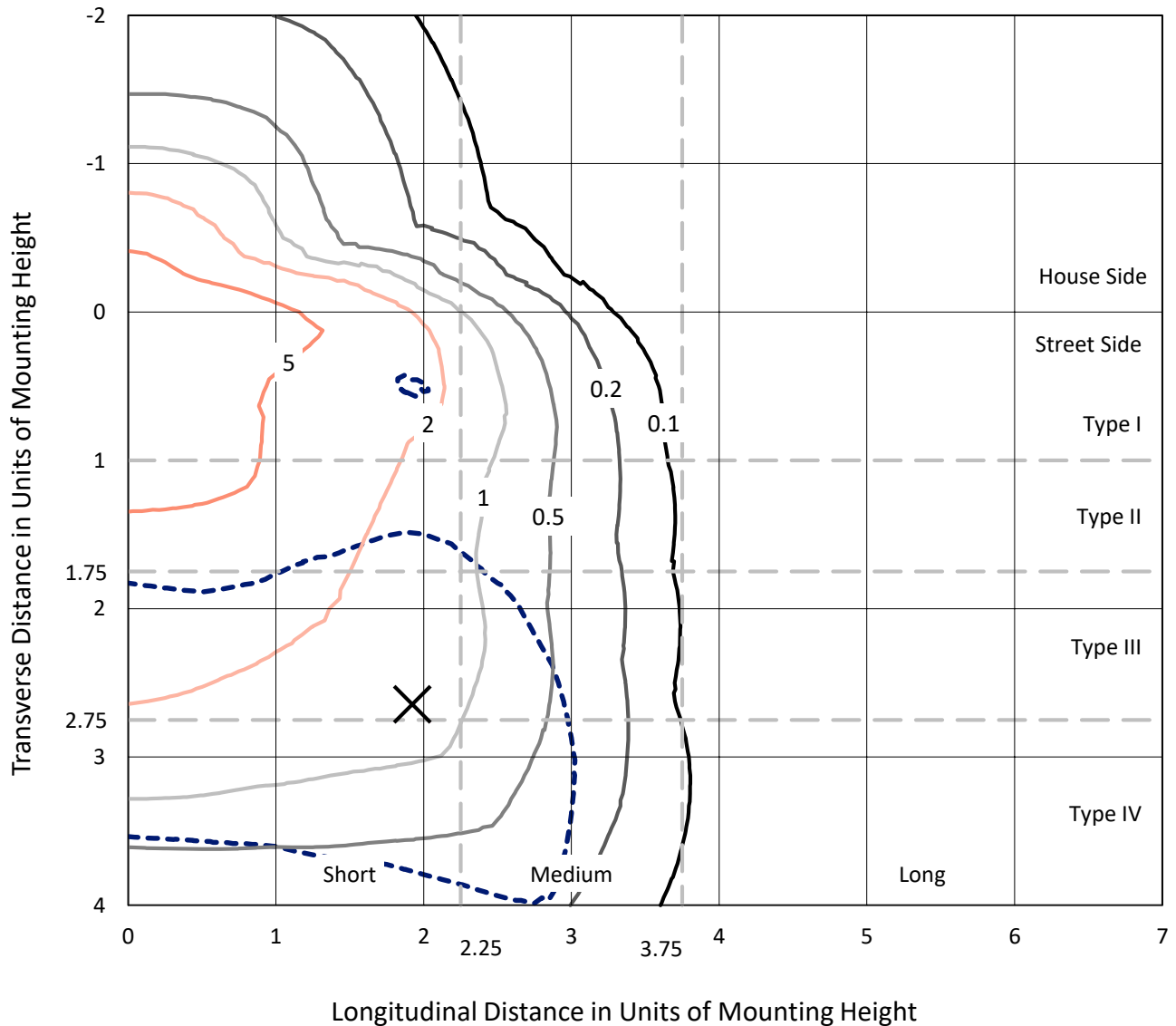


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

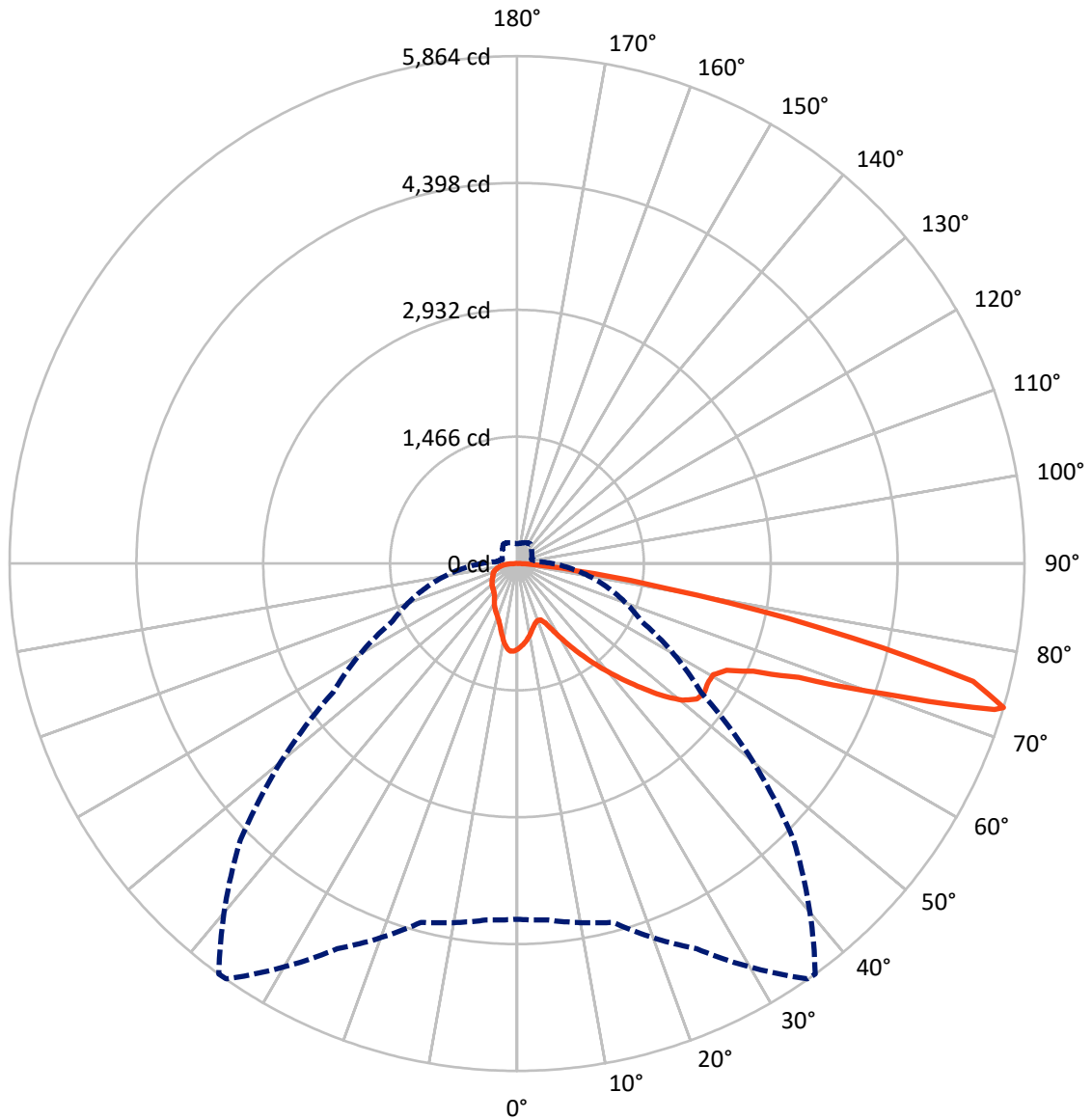


Based on 10 foot mounting height. Maximum calculated value = 9.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1260.1	0.0	1260.1
	% Fixture	19.3	0.0	19.3
Street Side	Lumens	5274.9	0.0	5274.9
	% Fixture	80.7	0.0	80.7
Total	Lumens	6535.0	0.0	6535.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.9	1.4
10°-20°	225.8	3.5
20°-30°	362.0	5.5
30°-40°	598.8	9.2
40°-50°	926.6	14.2
50°-60°	1240.5	19.0
60°-70°	1620.4	24.8
70°-80°	1323.6	20.3
80°-90°	147.3	2.3
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°	6535.0	100.0
0°-180°	6535.0	100.0



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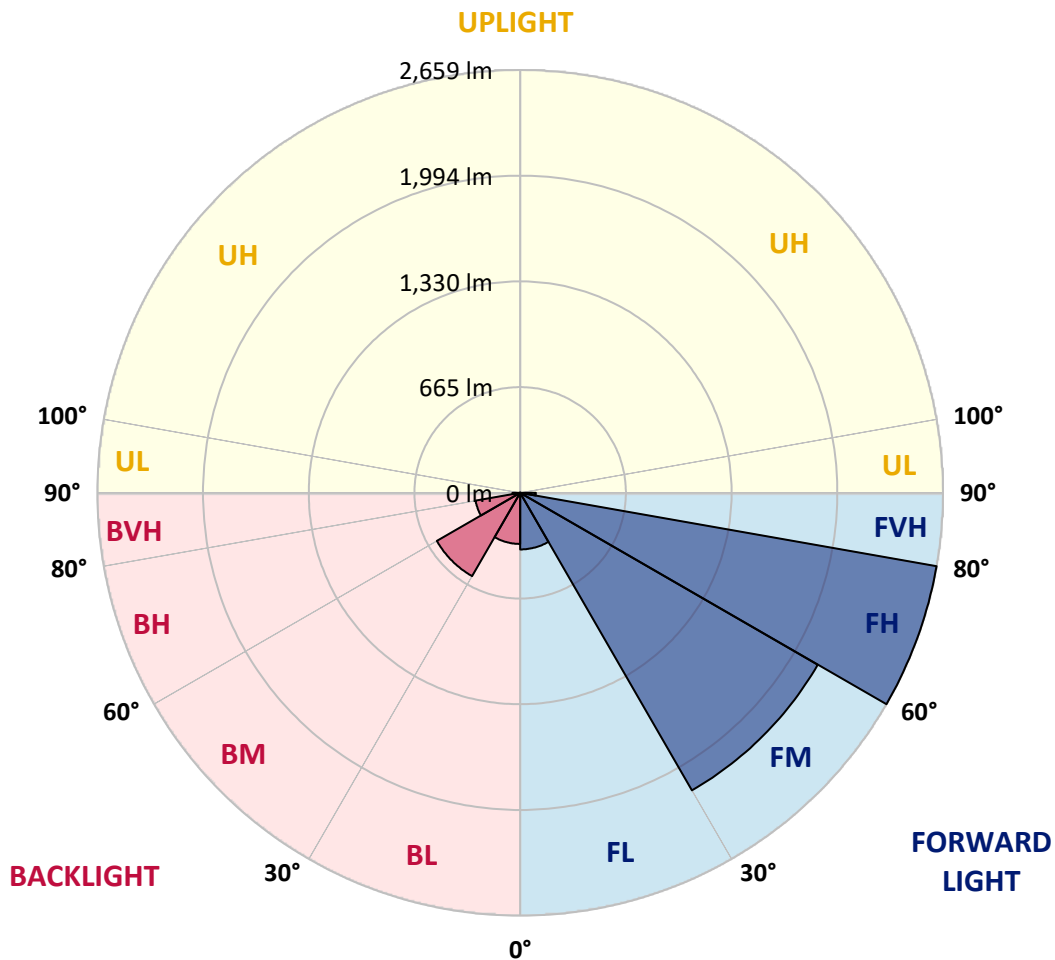
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	356.1	5.4			
FM	(30°-60°)	2160.7	33.1			
FH	(60°-80°)	2659.3	40.7			G2/5000
FVH	(80°-90°)	98.8	1.5			G1/100
BL	(0°-30°)	321.7	4.9	B1/500		
BM	(30°-60°)	605.2	9.3	B1/1000		
BH	(60°-80°)	284.8	4.4	B1/500		G1/500
BVH	(80°-90°)	48.5	0.7			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°	36°	45°	55°	65°	75°	85°
0°	989.9	989.9	989.9	989.9	989.9	989.9	989.9	989.9	989.9	989.9	989.9
2.5°	952.1	954.6	955.0	957.9	957.9	957.5	958.7	963.7	966.2	972.0	977.0
5°	905.2	908.1	909.3	914.3	920.5	920.9	925.5	935.1	944.2	957.1	967.9
7.5°	852.4	855.7	859.1	869.5	878.6	879.4	888.1	903.5	915.5	931.3	950.8
10°	801.4	802.2	805.5	818.8	830.8	832.1	844.5	862.0	878.2	900.2	922.2
12.5°	759.4	761.9	761.1	771.0	781.4	782.3	798.9	820.9	844.5	869.5	895.6
15°	744.9	744.5	735.8	735.3	739.9	740.7	756.9	782.7	809.2	840.0	873.6
17.5°	754.9	751.5	728.7	714.6	711.7	712.5	724.5	752.8	781.0	816.3	856.6
20°	809.7	796.8	743.2	709.2	699.6	699.6	706.7	729.5	760.7	801.8	852.4
22.5°	939.6	919.7	805.5	744.9	711.3	707.9	702.5	720.0	754.4	803.8	869.5
25°	1103.2	1093.7	919.7	840.0	770.6	759.8	724.1	730.4	767.3	826.3	916.0
27.5°	1254.8	1238.2	1069.6	978.2	880.2	863.6	788.1	762.7	798.0	867.8	983.2
30°	1343.2	1332.0	1223.6	1136.4	1019.8	998.6	890.2	826.7	852.8	936.3	1078.7
32.5°	1439.5	1432.9	1378.1	1298.8	1170.9	1146.4	1022.2	930.9	936.7	1027.2	1193.7
35°	1533.0	1541.7	1510.5	1452.4	1333.7	1310.8	1199.5	1067.1	1040.1	1129.4	1316.6
37.5°	1645.1	1647.1	1627.6	1589.8	1504.7	1486.0	1394.3	1212.4	1152.6	1238.2	1435.4
40°	1868.9	1836.1	1759.7	1729.8	1679.1	1667.5	1562.9	1345.7	1257.3	1349.9	1547.5
42.5°	2110.9	2059.9	1940.3	1891.3	1870.9	1860.1	1703.2	1434.6	1355.2	1461.5	1657.5
45°	2306.1	2264.6	2147.5	2086.8	2089.3	2071.9	1825.7	1513.9	1461.5	1573.6	1780.4
47.5°	2498.3	2429.0	2297.8	2289.1	2318.1	2292.4	1942.8	1593.2	1572.4	1695.7	1903.3
50°	2510.8	2447.7	2394.5	2464.3	2514.1	2482.1	2049.1	1697.0	1687.4	1843.5	2061.9
52.5°	2359.2	2350.1	2431.1	2548.6	2631.2	2602.5	2135.8	1803.7	1804.9	2028.3	2255.0
55°	2304.0	2292.4	2389.5	2534.0	2645.7	2628.7	2200.6	1924.1	1935.3	2252.5	2462.2
57.5°	2397.0	2367.9	2387.0	2506.6	2611.7	2601.7	2267.9	2057.8	2078.1	2510.8	2653.6
60°	2685.6	2626.2	2524.9	2547.3	2612.9	2607.1	2364.2	2206.8	2240.9	2779.8	2774.9
62.5°	3117.8	3050.6	2844.2	2744.5	2730.0	2718.8	2523.2	2390.0	2407.0	2974.2	2704.3
65°	3592.0	3519.7	3274.4	3111.2	3025.6	3001.6	2779.8	2610.8	2504.1	2973.7	2429.4
67.5°	4124.3	4047.9	3803.3	3647.6	3555.0	3513.9	3196.3	2789.4	2472.6	2722.1	1944.0
70°	4669.5	4596.8	4484.7	4539.1	4579.8	4517.1	3852.3	2848.8	2245.9	2134.2	1305.4
72.5°	4380.1	4374.2	4459.4	4975.1	5759.4	5771.8	4507.5	2681.0	1735.2	1268.5	695.9
73°	4111.4	4135.9	4293.7	4910.7	5860.3	5864.4	4520.4	2594.2	1593.2	1092.8	611.2
75°	2130.0	2296.1	2881.6	3981.9	5426.4	5445.9	3984.8	1963.9	949.6	607.0	411.9
77.5°	570.5	563.0	928.4	1939.9	3617.7	3592.0	2517.8	950.8	455.1	380.7	289.0
80°	195.6	198.1	316.0	709.6	1688.7	1748.9	1092.8	414.8	299.4	265.3	204.7
82.5°	99.7	103.0	165.3	301.9	706.3	691.3	351.7	244.1	200.5	161.1	114.6
85°	53.1	54.8	90.9	156.5	259.1	262.0	123.7	130.4	127.5	91.3	56.5
87.5°	26.2	27.0	43.6	68.9	95.9	92.6	43.2	56.5	62.7	51.5	31.1
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°	989.9	989.9	989.9	989.9	989.9	989.9	989.9	989.9	989.9	989.9	989.9
2.5°	983.2	983.2	988.6	997.8	1004.4	1010.6	1014.8	1021.4	1025.2	1024.7	1024.3
5°	976.6	980.7	991.5	1002.7	1010.2	1015.2	1015.2	1018.1	1018.1	1016.9	1015.2
7.5°	961.2	968.3	984.0	994.0	996.1	990.7	979.9	971.6	961.2	955.8	953.7
10°	936.7	945.9	965.8	970.3	959.6	940.5	914.3	891.9	871.9	862.8	859.9
12.5°	912.6	924.7	943.4	936.3	910.6	873.2	832.9	802.2	779.8	771.0	768.1
15°	892.7	907.2	921.8	899.8	854.9	803.0	758.6	729.9	712.9	706.3	704.6
17.5°	879.4	896.4	901.4	860.3	798.0	739.9	700.5	681.8	674.3	671.4	670.6
20°	880.2	899.3	887.3	822.1	743.2	684.7	658.5	653.1	653.1	653.1	652.7
22.5°	903.1	919.7	881.5	786.4	690.5	638.2	627.0	631.5	634.9	634.9	634.4
25°	950.4	959.6	885.6	751.9	641.1	597.9	598.3	607.0	609.9	609.9	609.1
27.5°	1022.7	1015.2	893.1	713.7	592.5	561.4	567.2	575.1	577.1	575.9	575.5
30°	1113.2	1083.3	899.3	668.9	546.8	527.3	532.3	536.9	535.2	532.3	531.9
32.5°	1214.5	1152.6	895.6	618.7	506.6	492.0	494.9	497.4	494.9	487.9	487.9
35°	1315.0	1215.3	875.3	563.9	474.6	458.0	457.6	465.5	465.0	456.7	457.1
37.5°	1403.0	1264.7	835.8	513.6	447.2	433.1	434.7	439.7	442.2	431.0	429.7
40°	1479.8	1298.8	780.2	470.8	425.2	426.0	421.4	413.5	410.6	405.7	404.8
42.5°	1552.1	1322.4	721.2	435.1	414.0	423.5	408.2	389.5	381.6	386.1	389.1
45°	1623.1	1349.0	664.3	405.7	399.8	416.0	394.9	374.1	365.0	367.0	370.0
47.5°	1709.8	1386.0	595.8	374.1	378.3	402.3	386.6	364.1	350.4	342.1	339.6
50°	1824.0	1439.5	507.0	340.1	355.4	387.4	379.5	349.6	334.7	318.1	313.9
52.5°	1966.9	1490.2	417.3	312.7	336.7	374.5	367.9	337.2	318.9	299.0	295.6
55°	2109.3	1497.2	340.1	289.0	315.6	357.1	353.8	327.2	301.4	285.2	281.9
57.5°	2208.9	1430.4	288.2	269.1	295.2	335.5	340.9	315.1	286.9	274.5	272.4
60°	2210.6	1270.5	256.6	255.8	279.9	316.8	327.6	301.0	277.8	269.5	267.8
62.5°	2034.9	1023.9	236.3	245.8	268.6	301.4	317.6	293.1	275.7	272.4	270.7
65°	1705.7	756.5	220.1	236.7	258.3	288.6	309.3	290.6	274.9	273.6	272.4
67.5°	1259.3	518.6	206.4	225.0	246.6	275.3	301.4	286.9	269.9	274.9	273.2
70°	792.2	346.3	193.5	211.8	231.3	259.9	291.1	280.3	263.7	260.8	255.4
72.5°	447.2	250.4	178.1	194.7	211.3	239.6	276.9	269.1	249.5	237.9	232.5
73°	404.0	237.1	174.4	190.6	206.8	235.4	273.6	265.7	245.4	232.5	227.5
75°	295.6	193.9	157.4	173.6	187.7	216.3	257.8	249.1	227.1	211.8	208.4
77.5°	214.2	149.5	135.4	149.9	162.3	189.8	234.2	224.2	202.6	194.3	191.0
80°	154.5	113.4	112.1	126.2	137.0	164.8	208.9	198.5	177.7	202.2	196.8
82.5°	92.2	72.7	82.2	98.0	109.2	138.3	181.4	169.4	149.5	151.1	128.7
85°	44.0	41.1	51.1	64.4	72.2	94.7	151.1	141.6	119.6	98.0	95.9
87.5°	19.5	18.7	24.5	28.6	38.6	56.9	103.4	91.8	86.8	51.9	40.7
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)