

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: P198627

Luminaire Tested: **XNV2-AF-02-LED-U-T4FT-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198627
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-7030-600
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 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: 7089 lumens
Efficiency: N/A
Efficacy: 107.4 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

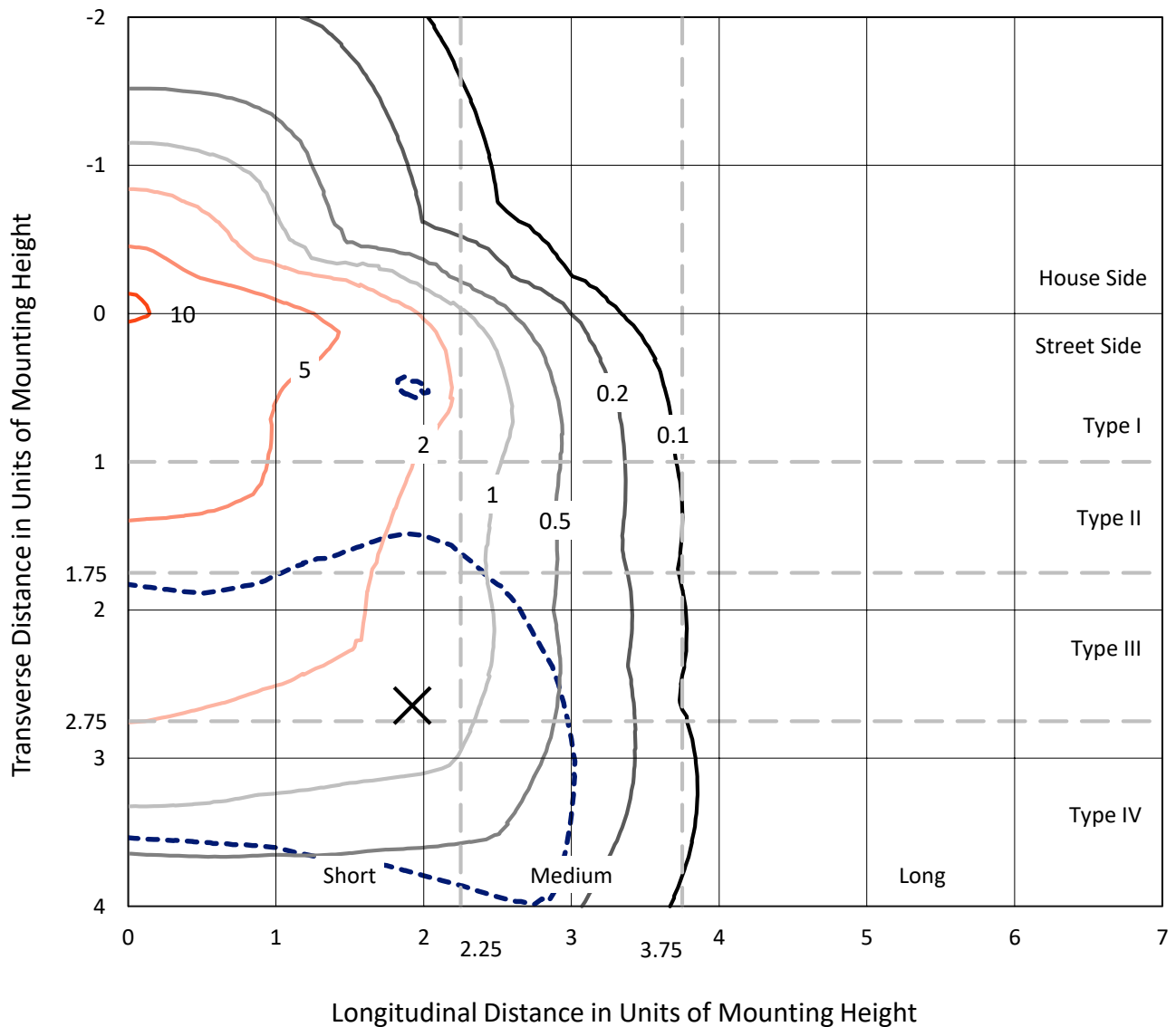
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

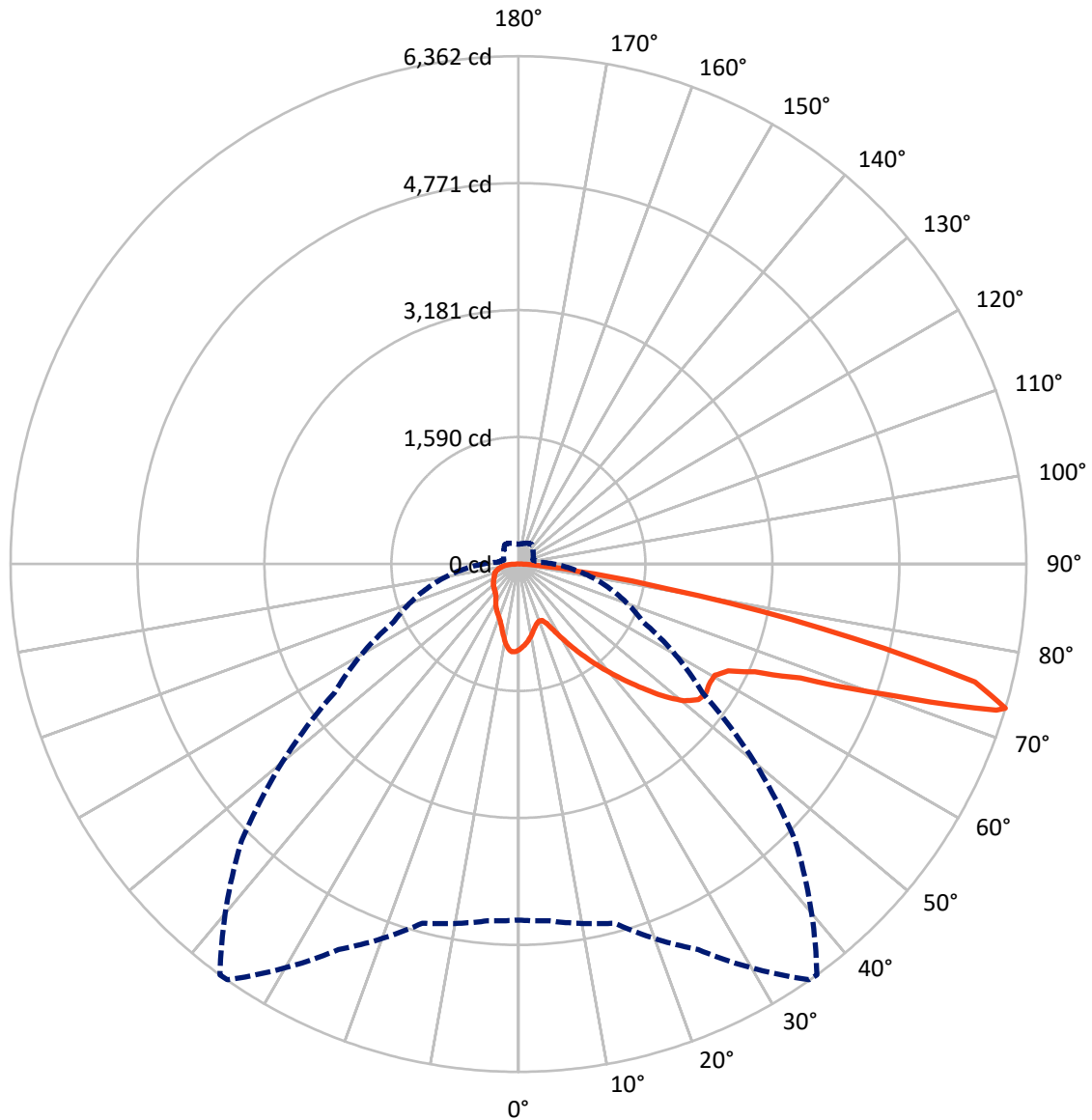


Based on 10 foot mounting height. Maximum calculated value = 10.7 fc
 Type IV - Short - Non-Cutoff

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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	1367.0	0.0	1367.0
	% Fixture	19.3	0.0	19.3
Street Side	Lumens	5722.0	0.0	5722.0
	% Fixture	80.7	0.0	80.7
Total	Lumens	7089.0	0.0	7089.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.5	1.4
10°-20°	244.9	3.5
20°-30°	392.7	5.5
30°-40°	649.6	9.2
40°-50°	1005.2	14.2
50°-60°	1345.6	19.0
60°-70°	1757.8	24.8
70°-80°	1435.8	20.3
80°-90°	159.8	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°	7089.0	100.0
0°-180°	7089.0	100.0



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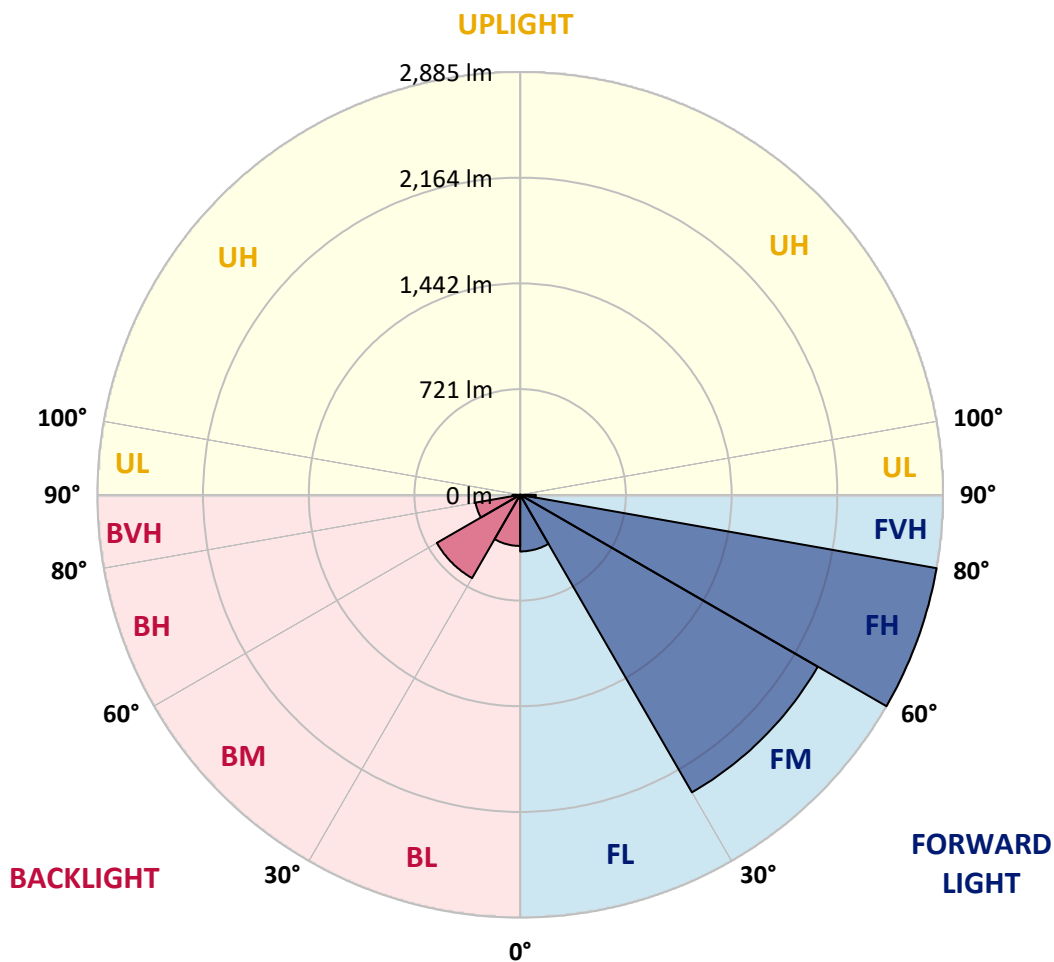
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	386.3	5.4			
FM	(30°-60°)	2343.9	33.1			
FH	(60°-80°)	2884.7	40.7			G2/5000
FVH	(80°-90°)	107.2	1.5			G2/225
BL	(0°-30°)	348.9	4.9	B1/500		
BM	(30°-60°)	656.5	9.3	B1/1000		
BH	(60°-80°)	308.9	4.4	B1/500		G1/500
BVH	(80°-90°)	52.6	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°	1073.8	1073.8	1073.8	1073.8	1073.8	1073.8	1073.8	1073.8	1073.8	1073.8	1073.8
2.5°	1032.8	1035.5	1035.9	1039.1	1039.1	1038.6	1040.0	1045.4	1048.1	1054.4	1059.8
5°	981.9	985.0	986.4	991.8	998.6	999.0	1004.0	1014.3	1024.2	1038.2	1049.9
7.5°	924.7	928.3	931.9	943.2	953.1	954.0	963.4	980.1	993.2	1010.3	1031.4
10°	869.3	870.2	873.8	888.2	901.3	902.6	916.1	935.1	952.6	976.5	1000.4
12.5°	823.8	826.5	825.6	836.4	847.7	848.6	866.6	890.5	916.1	943.2	971.5
15°	808.0	807.6	798.1	797.7	802.6	803.5	821.1	849.0	877.8	911.2	947.7
17.5°	818.8	815.2	790.5	775.2	772.0	772.9	786.0	816.6	847.2	885.5	929.2
20°	878.3	864.3	806.2	769.3	758.9	758.9	766.6	791.4	825.2	869.7	924.7
22.5°	1019.3	997.7	873.8	808.0	771.6	767.9	762.1	781.0	818.4	872.0	943.2
25°	1196.7	1186.4	997.7	911.2	836.0	824.3	785.5	792.3	832.4	896.3	993.6
27.5°	1361.1	1343.1	1160.3	1061.2	954.9	936.9	854.9	827.4	865.7	941.4	1066.6
30°	1457.1	1444.9	1327.4	1232.8	1106.2	1083.2	965.7	896.8	925.1	1015.7	1170.2
32.5°	1561.6	1554.4	1494.9	1408.9	1270.2	1243.6	1108.9	1009.8	1016.1	1114.3	1294.9
35°	1662.9	1672.4	1638.6	1575.5	1446.7	1421.9	1301.2	1157.6	1128.3	1225.1	1428.2
37.5°	1784.5	1786.8	1765.6	1724.6	1632.3	1612.0	1512.5	1315.2	1250.3	1343.1	1557.1
40°	2027.3	1991.7	1908.8	1876.4	1821.5	1808.8	1695.3	1459.8	1363.8	1464.3	1678.7
42.5°	2289.9	2234.5	2104.8	2051.6	2029.5	2017.8	1847.6	1556.2	1470.1	1585.4	1798.0
45°	2501.6	2456.5	2329.5	2263.8	2266.5	2247.5	1980.5	1642.2	1585.4	1707.1	1931.4
47.5°	2710.1	2634.9	2492.6	2483.1	2514.6	2486.7	2107.5	1728.2	1705.7	1839.5	2064.7
50°	2723.6	2655.2	2597.5	2673.2	2727.2	2692.6	2222.8	1840.8	1830.5	1999.8	2236.7
52.5°	2559.2	2549.3	2637.2	2764.6	2854.2	2823.2	2316.9	1956.6	1957.9	2200.3	2446.2
55°	2499.3	2486.7	2592.1	2748.9	2870.0	2851.5	2387.2	2087.2	2099.4	2443.5	2670.9
57.5°	2600.2	2568.7	2589.4	2719.1	2833.1	2822.3	2460.1	2232.2	2254.3	2723.6	2878.6
60°	2913.3	2848.8	2738.9	2763.3	2834.4	2828.1	2564.6	2393.9	2430.9	3015.5	3010.1
62.5°	3382.1	3309.2	3085.3	2977.2	2961.4	2949.3	2737.1	2592.6	2611.0	3226.3	2933.5
65°	3896.5	3818.1	3551.9	3374.9	3282.1	3256.0	3015.5	2832.2	2716.4	3225.8	2635.3
67.5°	4473.9	4391.0	4125.8	3956.9	3856.4	3811.8	3467.3	3025.9	2682.2	2952.9	2108.8
70°	5065.3	4986.5	4864.9	4923.9	4968.0	4900.0	4178.9	3090.3	2436.3	2315.1	1416.1
72.5°	4751.4	4745.1	4837.4	5396.8	6247.6	6261.1	4889.7	2908.3	1882.3	1376.0	754.9
73°	4460.0	4486.5	4657.7	5327.0	6357.1	6361.6	4903.6	2814.2	1728.2	1185.5	663.0
75°	2310.6	2490.8	3125.8	4319.4	5886.4	5907.6	4322.6	2130.4	1030.1	658.5	446.8
77.5°	618.9	610.8	1007.1	2104.3	3924.4	3896.5	2731.3	1031.4	493.6	413.0	313.5
80°	212.1	214.8	342.8	769.8	1831.8	1897.1	1185.5	450.0	324.7	287.8	222.1
82.5°	108.1	111.7	179.3	327.4	766.1	749.9	381.5	264.8	217.5	174.8	124.3
85°	57.7	59.5	98.6	169.8	281.1	284.2	134.2	141.4	138.3	99.1	61.3
87.5°	28.4	29.3	47.3	74.8	104.0	100.4	46.8	61.3	68.0	55.9	33.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1073.8	1073.8	1073.8	1073.8	1073.8	1073.8	1073.8	1073.8	1073.8	1073.8	1073.8
2.5°	1066.6	1066.6	1072.4	1082.3	1089.5	1096.3	1100.8	1108.0	1112.1	1111.6	1111.2
5°	1059.4	1063.9	1075.6	1087.7	1095.8	1101.3	1101.3	1104.4	1104.4	1103.1	1101.3
7.5°	1042.7	1050.4	1067.5	1078.3	1080.5	1074.7	1063.0	1054.0	1042.7	1036.8	1034.6
10°	1016.1	1026.0	1047.7	1052.6	1040.9	1020.2	991.8	967.5	945.9	936.0	932.8
12.5°	990.0	1003.1	1023.3	1015.7	987.7	947.2	903.5	870.2	845.9	836.4	833.3
15°	968.4	984.1	999.9	976.0	927.4	871.1	822.9	791.8	773.4	766.1	764.3
17.5°	954.0	972.4	977.8	933.2	865.7	802.6	759.8	739.6	731.5	728.3	727.4
20°	954.9	975.6	962.5	891.8	806.2	742.7	714.4	708.5	708.5	708.5	708.0
22.5°	979.6	997.7	956.2	853.1	749.0	692.3	680.1	685.1	688.7	688.7	688.2
25°	1031.0	1040.9	960.7	815.7	695.4	648.6	649.0	658.5	661.7	661.7	660.8
27.5°	1109.4	1101.3	968.8	774.3	642.7	609.0	615.3	623.8	626.1	624.7	624.3
30°	1207.5	1175.1	975.6	725.6	593.2	572.0	577.4	582.4	580.6	577.4	577.0
32.5°	1317.4	1250.3	971.5	671.1	549.5	533.7	536.9	539.6	536.9	529.2	529.2
35°	1426.4	1318.3	949.5	611.7	514.8	496.8	496.4	504.9	504.5	495.5	495.9
37.5°	1521.9	1371.9	906.7	557.2	485.1	469.8	471.6	477.0	479.7	467.5	466.2
40°	1605.3	1408.9	846.3	510.8	461.2	462.1	457.2	448.6	445.5	440.1	439.1
42.5°	1683.6	1434.6	782.4	472.0	449.1	459.4	442.8	422.5	413.9	418.9	422.0
45°	1760.7	1463.4	720.7	440.1	433.7	451.3	428.3	405.8	395.9	398.2	401.3
47.5°	1854.8	1503.5	646.3	405.8	410.3	436.4	419.3	395.0	380.1	371.1	368.4
50°	1978.7	1561.6	550.0	368.9	385.6	420.2	411.7	379.2	363.0	345.0	340.5
52.5°	2133.6	1616.5	452.7	339.2	365.3	406.3	399.1	365.7	345.9	324.3	320.7
55°	2288.1	1624.2	368.9	313.5	342.3	387.4	383.7	354.9	327.0	309.4	305.8
57.5°	2396.2	1551.7	312.6	291.9	320.2	363.9	369.8	341.9	311.2	297.7	295.5
60°	2398.0	1378.3	278.4	277.5	303.6	343.7	355.4	326.5	301.3	292.3	290.5
62.5°	2207.5	1110.7	256.3	266.6	291.4	327.0	344.6	318.0	299.1	295.5	293.7
65°	1850.3	820.6	238.7	256.7	280.2	313.0	335.6	315.3	298.2	296.8	295.5
67.5°	1366.1	562.6	223.9	244.1	267.5	298.6	327.0	311.2	292.8	298.2	296.4
70°	859.4	375.6	209.9	229.7	250.9	282.0	315.7	304.0	286.0	282.9	277.0
72.5°	485.1	271.6	193.2	211.2	229.3	259.9	300.4	291.9	270.7	258.1	252.2
73°	438.2	257.2	189.2	206.7	224.3	255.4	296.8	288.3	266.2	252.2	246.8
75°	320.7	210.3	170.7	188.3	203.6	234.7	279.7	270.2	246.4	229.7	226.1
77.5°	232.4	162.1	146.8	162.6	176.1	205.8	254.0	243.2	219.8	210.8	207.2
80°	167.6	123.0	121.6	136.9	148.6	178.8	226.6	215.3	192.8	219.3	213.5
82.5°	100.0	78.8	89.2	106.3	118.5	150.0	196.8	183.8	162.1	163.9	139.6
85°	47.7	44.6	55.4	69.8	78.4	102.7	163.9	153.6	129.7	106.3	104.0
87.5°	21.2	20.3	26.6	31.1	41.9	61.7	112.2	99.5	94.1	56.3	44.1
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)