

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: P271339

Luminaire Tested: **XNV2-AF-02-LED-U-T2-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271339
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24136)
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-T2-7027-800
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8285.7 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B2 - U0 - G2

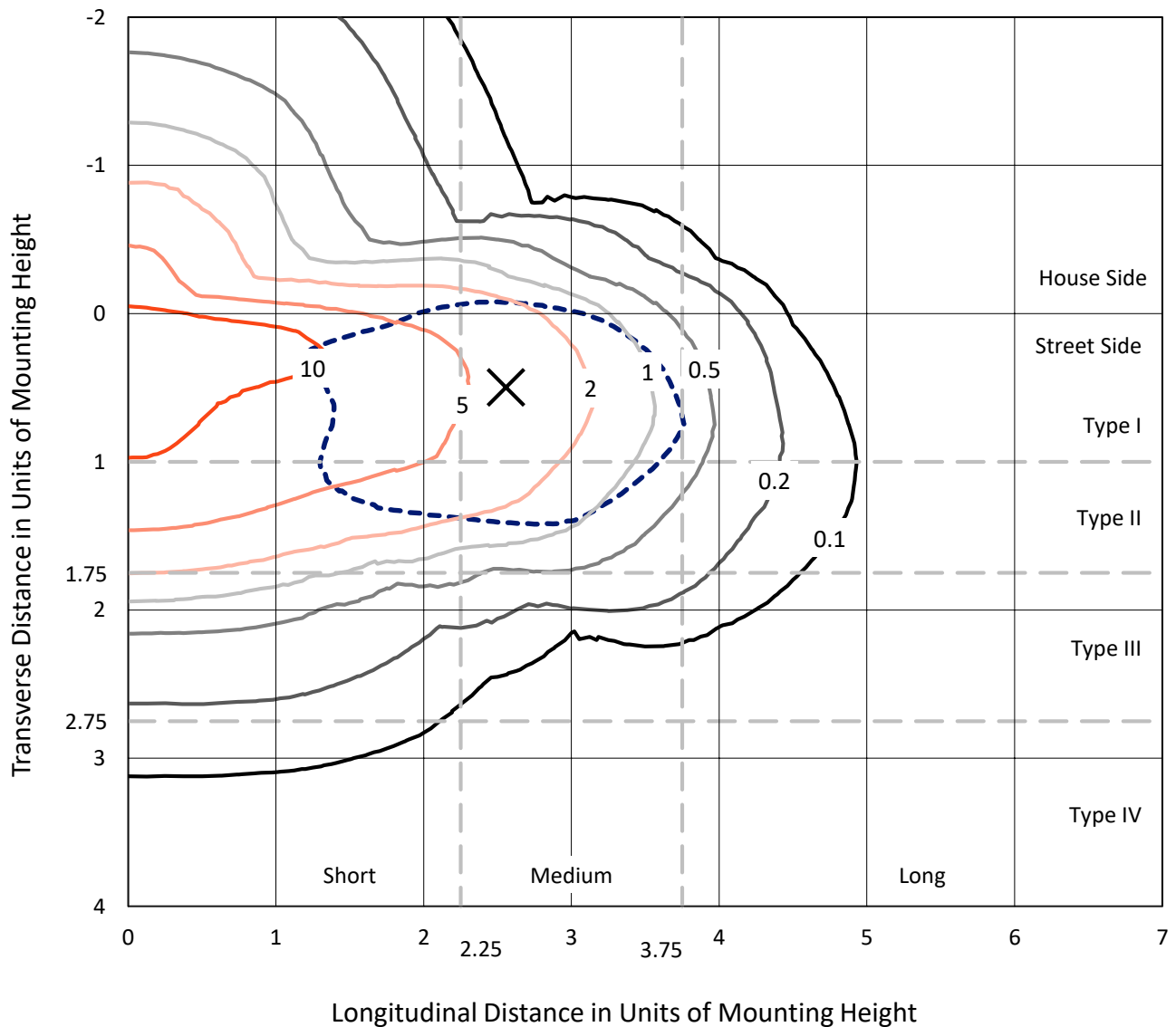
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

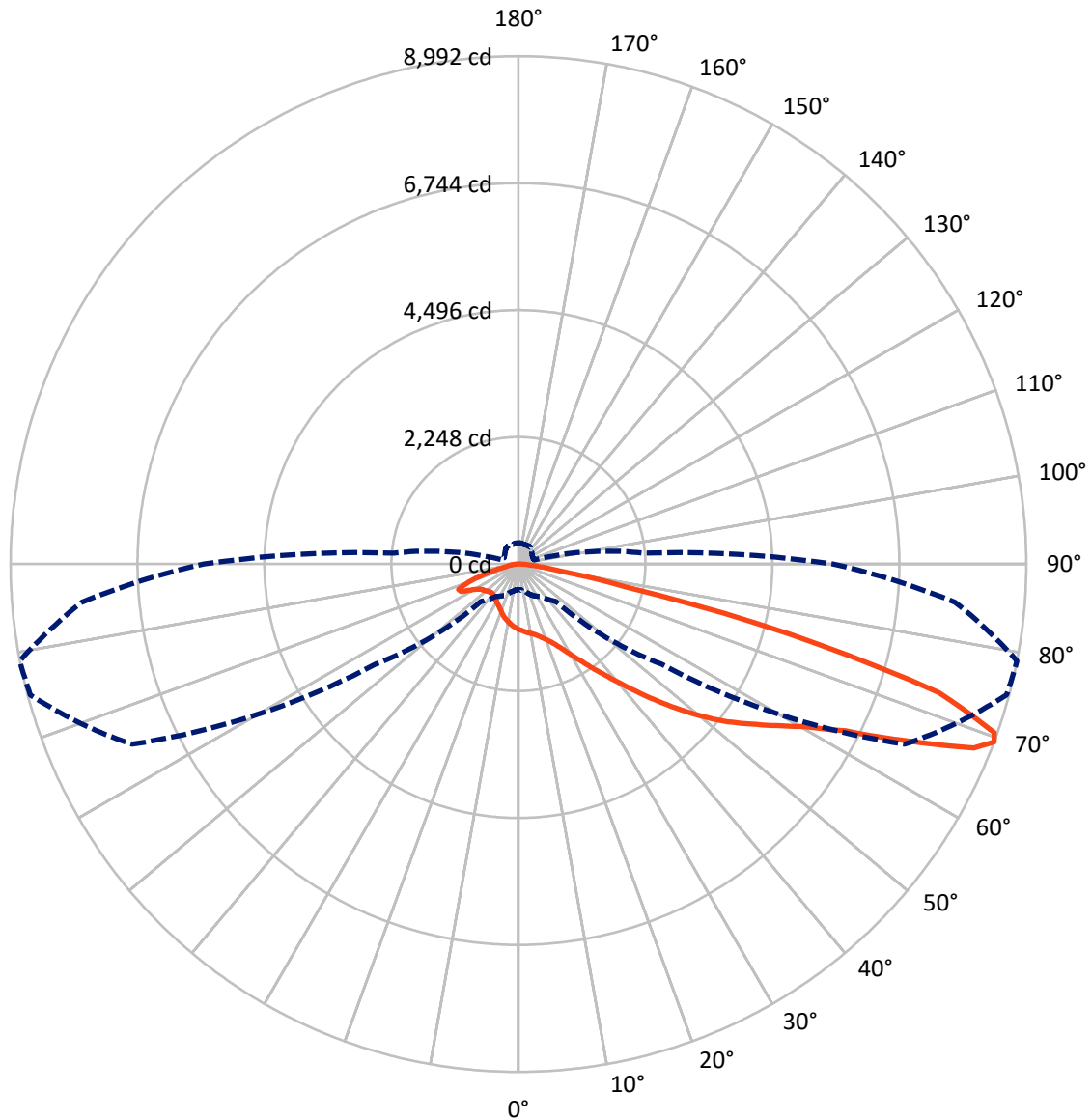
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.1 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1558.7	0.0	1558.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	6727.0	0.0	6727.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	8285.7	0.0	8285.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.8	1.3
10°-20°	309.0	3.7
20°-30°	510.7	6.2
30°-40°	826.9	10.0
40°-50°	1321.0	15.9
50°-60°	1891.7	22.8
60°-70°	2107.7	25.4
70°-80°	1054.5	12.7
80°-90°	156.5	1.9
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°	8285.7	100.0
0°-180°	8285.7	100.0

Coefficient of Utilization



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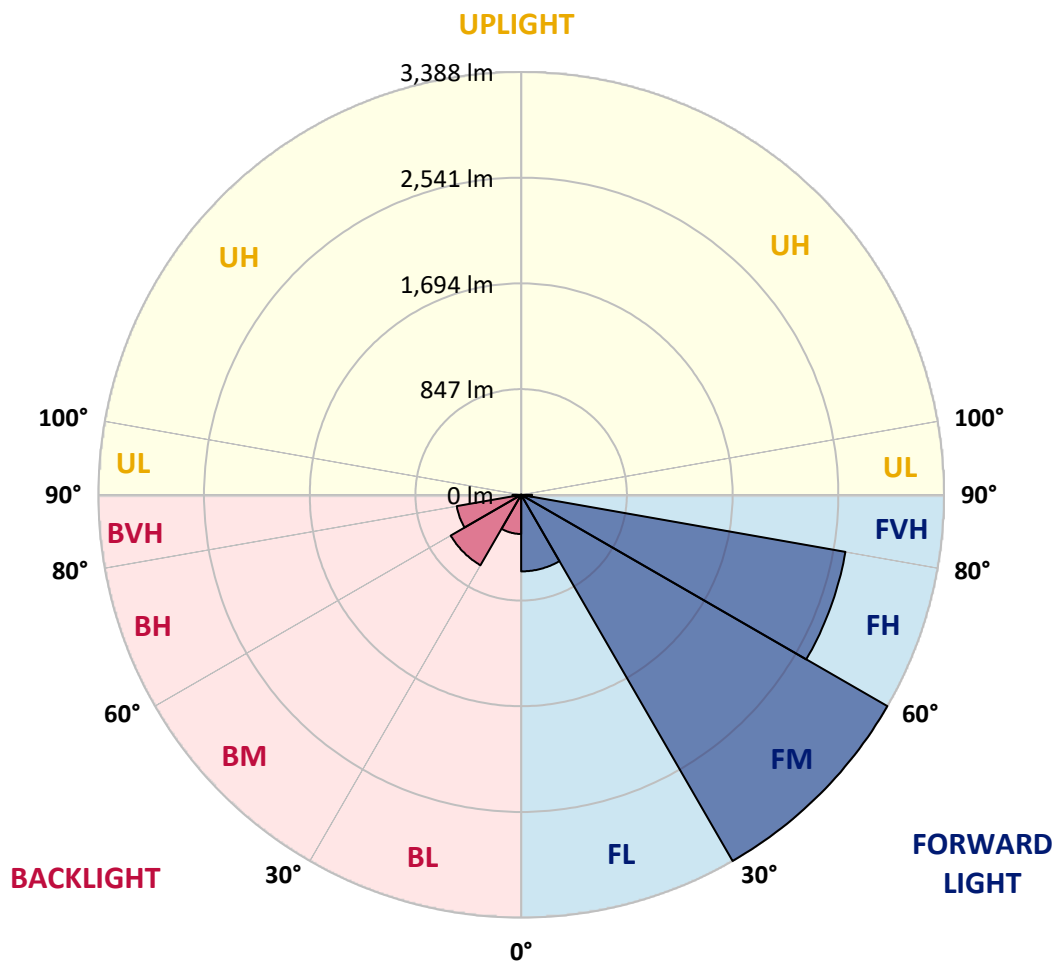
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	613.5	7.4			
FM (30°-60°)	3388.0	40.9			
FH (60°-80°)	2638.0	31.8			G2/5000
FVH (80°-90°)	87.4	1.1			G1/100
BL (0°-30°)	314.0	3.8	B1/500		
BM (30°-60°)	651.6	7.9	B1/1000		
BH (60°-80°)	524.1	6.3	B2/1000		G2/1000
BVH (80°-90°)	69.0	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1162.8	1162.8	1162.8	1162.8	1162.8	1162.8	1162.8	1162.8	1162.8	1162.8	1162.8
2.5°	1276.6	1273.8	1273.3	1265.3	1260.9	1251.7	1230.0	1207.7	1187.1	1176.3	1164.9
5°	1383.4	1377.9	1375.2	1361.7	1349.8	1329.1	1294.9	1259.8	1223.0	1204.0	1181.2
7.5°	1447.9	1448.3	1448.3	1437.6	1425.6	1400.6	1357.3	1309.1	1254.4	1229.4	1193.7
10°	1453.3	1453.8	1461.9	1464.6	1467.4	1454.4	1414.2	1353.6	1283.0	1250.6	1204.0
12.5°	1399.6	1403.4	1416.9	1436.5	1464.1	1478.3	1460.9	1401.3	1319.9	1280.4	1223.4
15°	1327.5	1331.3	1348.6	1378.4	1422.9	1470.0	1494.5	1456.1	1368.2	1321.5	1252.1
17.5°	1292.3	1296.7	1308.6	1332.4	1375.8	1439.3	1512.3	1514.5	1425.2	1371.4	1286.4
20°	1275.6	1278.7	1293.9	1313.4	1346.5	1407.3	1514.1	1576.3	1492.9	1430.6	1328.1
22.5°	1314.0	1315.1	1322.7	1333.5	1355.7	1402.3	1512.9	1640.3	1577.5	1504.8	1381.8
25°	1426.7	1419.7	1414.2	1400.6	1406.1	1439.3	1530.3	1708.5	1685.8	1602.3	1453.3
27.5°	1560.0	1559.0	1544.8	1513.5	1493.4	1514.5	1579.6	1785.0	1818.7	1726.5	1547.2
30°	1708.5	1709.1	1694.6	1656.0	1615.3	1617.6	1658.2	1873.3	1977.4	1876.1	1662.6
32.5°	1864.3	1874.0	1846.8	1808.4	1759.1	1743.3	1771.0	1980.1	2161.2	2052.8	1796.4
35°	2050.1	2051.6	2021.9	1965.5	1916.3	1891.3	1916.8	2113.5	2373.2	2260.4	1959.7
37.5°	2243.1	2244.1	2213.2	2141.2	2078.9	2062.6	2090.7	2275.5	2597.5	2496.7	2151.5
40°	2400.8	2412.2	2387.9	2320.1	2257.3	2247.4	2288.2	2469.7	2884.4	2776.5	2379.7
42.5°	2579.8	2592.7	2563.5	2492.9	2443.1	2439.8	2503.2	2690.9	3169.5	3100.1	2638.2
45°	2781.3	2799.7	2759.1	2680.1	2637.8	2709.3	2713.2	2935.8	3498.0	3462.2	2929.4
47.5°	3001.4	3016.6	2983.5	2898.4	2852.4	2956.0	2918.6	3200.9	3853.0	3850.3	3244.3
50°	3171.0	3187.9	3191.1	3153.8	3105.5	3118.6	3144.0	3479.6	4207.0	4249.3	3570.0
52.5°	3140.2	3156.5	3229.6	3327.9	3405.2	3371.7	3402.6	3775.5	4549.0	4638.5	3879.6
55°	2890.8	2899.5	3036.7	3269.8	3599.9	3760.3	3762.6	4097.4	4874.4	4999.4	4173.3
57.5°	2441.6	2442.6	2621.0	2964.5	3486.6	4012.4	4330.5	4501.9	5213.7	5398.5	4537.7
60°	1727.6	1731.9	1939.5	2389.0	3080.6	3982.0	4941.4	5225.6	5606.6	5846.8	5007.2
62.5°	1025.5	1035.3	1192.1	1552.5	2288.2	3591.8	5302.5	6513.0	6185.5	6504.3	5758.4
65°	667.4	675.4	769.2	950.2	1351.9	2613.3	5183.8	7759.6	7281.1	7538.5	6838.2
67.5°	513.9	520.4	594.0	703.6	829.3	1412.7	4144.7	8021.1	8614.6	8694.9	7749.5
69°	451.6	457.0	511.1	616.3	698.3	935.0	3088.7	7546.8	8947.9	8991.9	7760.8
70°	418.5	422.8	473.8	564.9	641.3	746.4	2364.0	6996.0	8825.9	8938.1	7537.0
72.5°	344.8	348.5	384.8	454.8	524.3	531.7	1047.2	5108.5	7431.8	7790.6	6378.0
75°	287.8	290.1	313.9	364.8	424.4	423.3	535.0	2893.6	4535.0	4962.6	3938.1
77.5°	240.1	241.7	257.5	289.0	335.0	333.5	376.7	1249.0	2002.4	1932.0	1355.7
80°	211.9	213.1	221.2	229.2	258.5	256.9	279.2	573.5	814.8	752.9	512.8
82.5°	160.9	163.1	204.4	208.1	200.6	193.6	194.7	333.9	417.4	380.1	275.4
85°	91.1	91.5	131.2	153.4	174.5	131.2	126.3	172.4	206.0	180.5	120.4
87.5°	40.7	42.3	62.9	72.7	94.3	77.0	72.1	73.2	88.9	73.8	47.7
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°	1162.8	1162.8	1162.8	1162.8	1162.8	1162.8	1162.8	1162.8	1162.8	1162.8	1162.8
2.5°	1154.1	1144.9	1123.2	1101.0	1078.8	1064.6	1049.9	1036.5	1031.1	1030.4	1020.1
5°	1159.0	1137.3	1087.9	1033.7	982.2	942.1	908.5	886.8	865.6	862.0	852.8
7.5°	1160.6	1125.3	1045.1	958.4	879.8	824.5	790.9	776.2	766.0	763.2	760.0
10°	1160.0	1110.1	997.4	878.7	789.3	747.5	735.1	738.2	742.5	744.9	744.9
12.5°	1168.8	1103.1	949.7	804.0	730.7	710.6	720.4	737.1	750.3	755.7	756.7
15°	1184.4	1098.7	897.1	738.9	689.4	694.4	718.3	742.5	761.0	769.2	771.4
17.5°	1204.0	1092.8	836.4	685.1	665.6	682.4	713.3	744.2	766.4	776.8	778.4
20°	1225.6	1084.2	773.5	645.1	644.5	665.6	696.5	731.3	755.1	766.4	766.0
22.5°	1254.9	1076.0	715.1	615.8	621.2	640.8	666.3	697.7	719.9	730.1	727.9
25°	1293.9	1068.4	662.4	589.7	594.7	607.7	625.6	649.5	665.1	670.6	666.7
27.5°	1346.5	1062.4	621.2	565.9	565.4	571.3	582.2	595.1	602.9	601.1	595.1
30°	1411.0	1056.4	590.8	544.8	537.1	536.6	541.5	549.1	554.0	544.3	539.3
32.5°	1483.1	1046.2	563.7	526.3	512.8	507.9	510.1	520.4	540.4	530.7	526.9
35°	1568.3	1034.3	536.6	506.3	496.0	486.8	488.4	510.6	571.3	564.2	560.5
37.5°	1670.7	1023.3	511.8	484.6	484.0	472.7	471.6	498.2	579.4	564.2	561.0
40°	1793.7	1021.3	489.4	460.8	469.5	465.1	461.3	477.5	534.5	503.6	497.7
42.5°	1942.2	1031.1	473.2	438.1	452.7	462.9	455.9	459.7	483.0	455.4	450.5
45°	2115.7	1057.6	461.3	417.9	434.7	461.3	453.1	450.0	453.7	438.6	435.3
47.5°	2317.8	1104.7	453.1	401.2	417.9	457.0	452.0	445.6	443.9	435.3	433.2
50°	2534.2	1168.2	447.7	385.9	402.8	449.4	451.6	442.3	439.6	435.8	434.7
52.5°	2748.9	1237.0	441.2	372.9	390.4	440.2	452.0	439.1	435.3	433.2	432.1
55°	2962.4	1308.6	429.3	361.6	381.2	429.3	451.6	434.7	430.4	430.4	430.4
57.5°	3239.4	1417.5	413.6	352.3	369.2	415.2	444.5	429.8	423.9	424.4	425.0
60°	3639.5	1600.2	396.2	342.1	353.5	398.9	433.6	421.1	414.2	416.4	416.9
62.5°	4307.8	1919.5	372.3	327.4	337.1	381.6	419.6	409.3	402.8	406.6	407.1
65°	5199.0	2305.9	340.9	308.9	320.3	362.0	401.7	395.2	388.1	397.3	396.8
67.5°	5742.7	2419.2	307.8	289.4	304.0	341.4	379.4	376.7	371.9	388.1	387.0
69°	5564.3	2214.3	289.0	276.9	292.7	327.4	365.3	364.3	360.5	376.2	375.1
70°	5287.3	2023.1	276.9	268.9	286.7	318.8	356.2	356.2	352.3	365.9	363.2
72.5°	4247.1	1500.4	249.4	248.3	266.2	295.0	331.3	333.9	331.7	336.7	333.9
75°	2493.5	904.1	222.2	225.6	241.3	269.4	303.5	305.8	303.5	303.0	303.5
77.5°	864.6	405.5	196.2	201.1	214.7	243.4	273.3	277.5	274.3	270.5	271.6
80°	338.2	235.7	168.1	175.1	186.5	214.2	242.8	245.5	240.7	240.1	235.7
82.5°	203.2	143.6	130.7	142.0	156.1	185.9	209.8	208.6	205.0	227.1	199.0
85°	88.4	79.7	95.4	106.8	113.8	139.2	177.2	172.4	163.1	143.6	140.3
87.5°	35.8	41.2	52.6	63.4	68.4	90.0	121.5	117.0	118.8	97.6	97.0
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)