

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: P271338

Luminaire Tested: **XNV2-AF-02-LED-U-T2-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271338
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-T2-7027-600
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6755.5 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B1 - U0 - G2

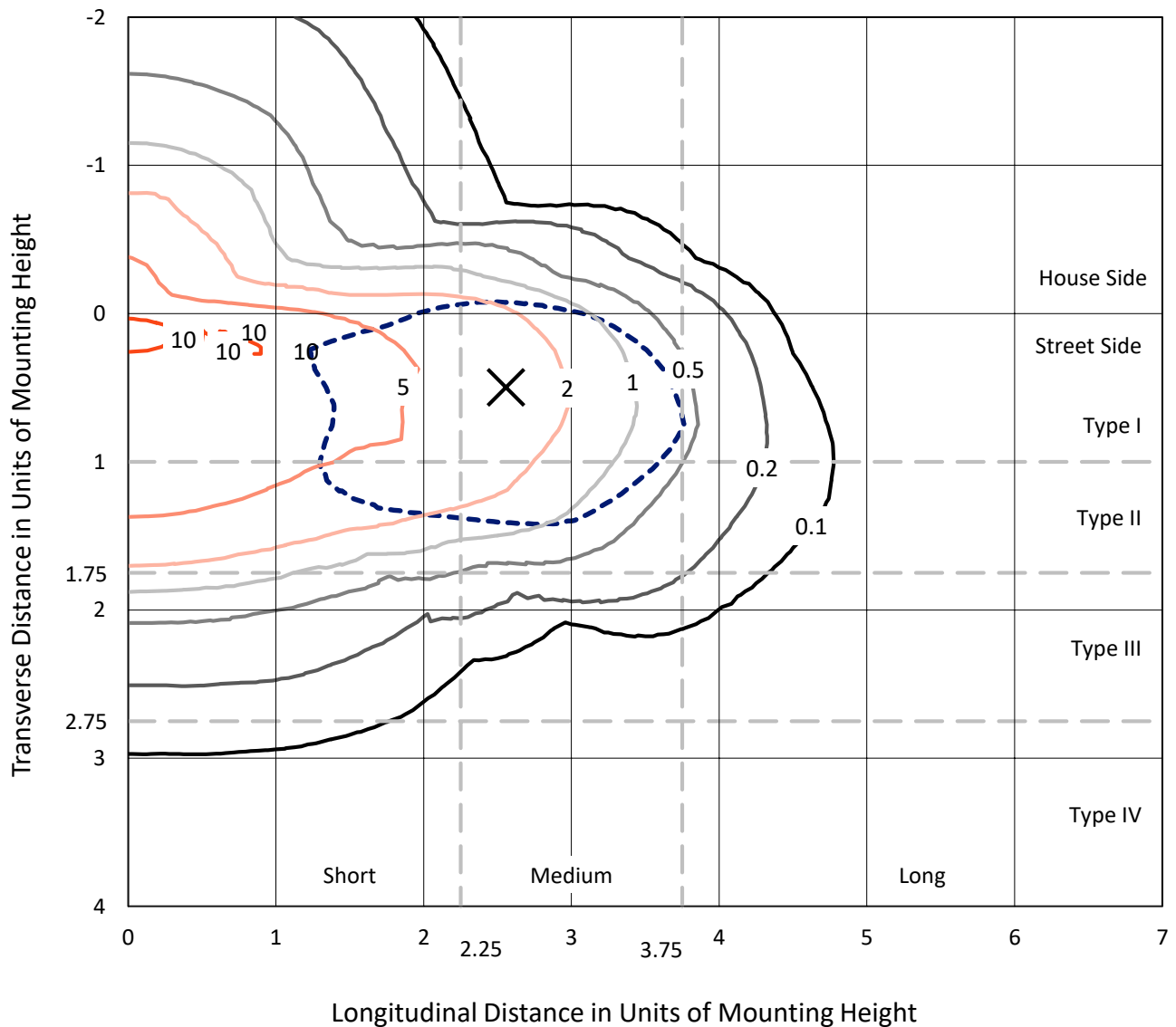
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

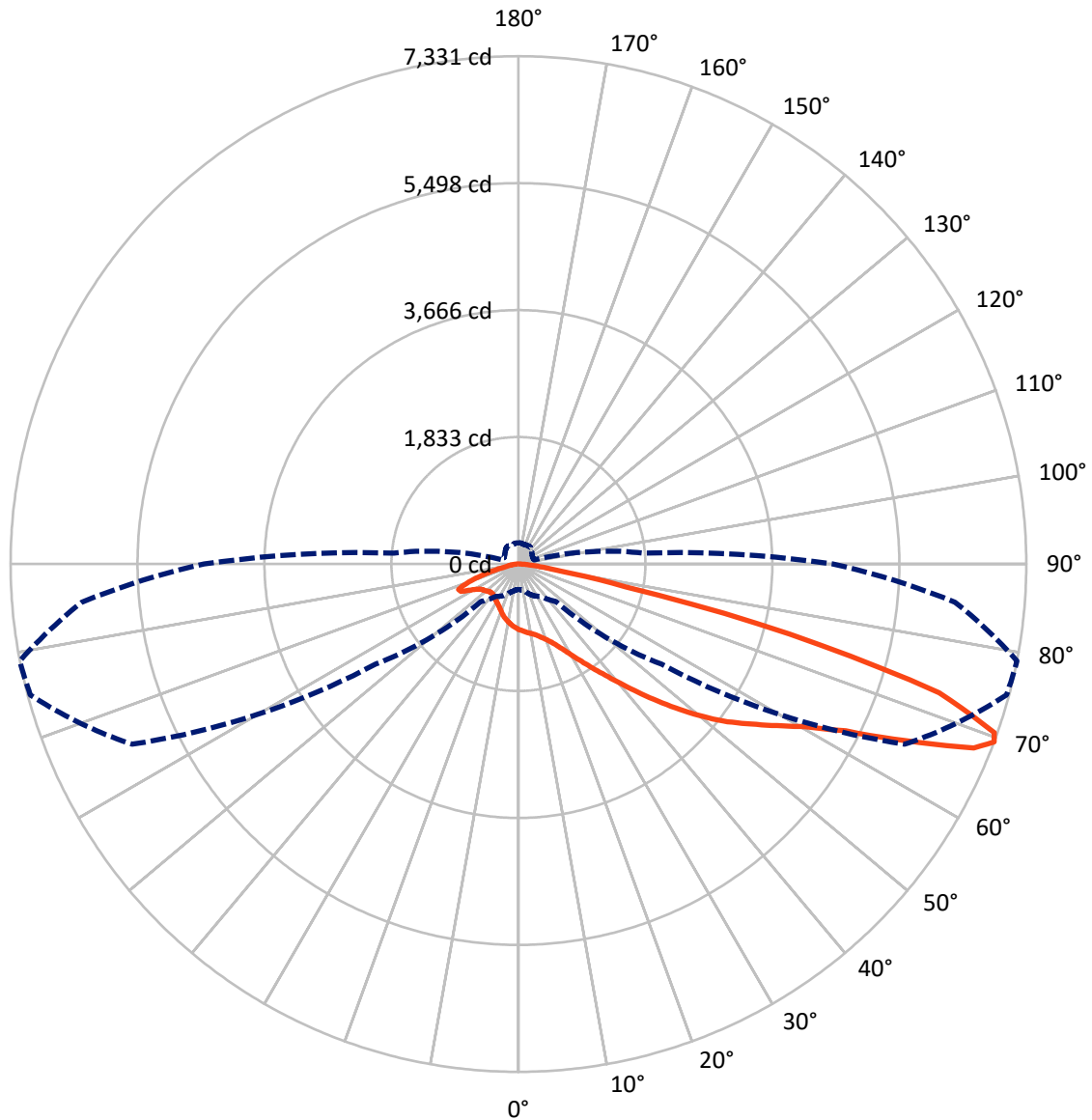
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.5 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	1270.8	0.0	1270.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	5484.7	0.0	5484.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	6755.5	0.0	6755.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.9	1.3
10°-20°	252.0	3.7
20°-30°	416.4	6.2
30°-40°	674.2	10.0
40°-50°	1077.0	15.9
50°-60°	1542.4	22.8
60°-70°	1718.5	25.4
70°-80°	859.7	12.7
80°-90°	127.6	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°	6755.5	100.0
0°-180°	6755.5	100.0

Coefficient of Utilization



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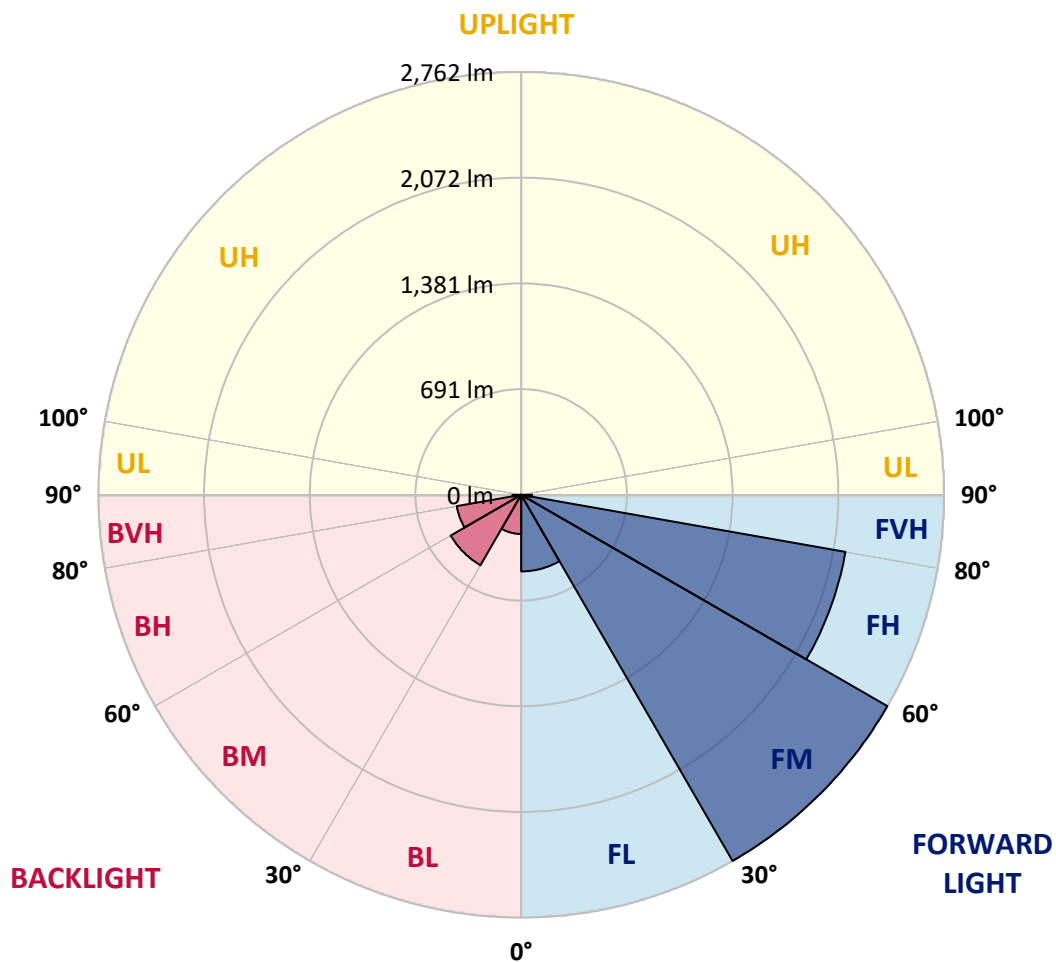
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	500.2	7.4			
FM (30°-60°)	2762.3	40.9			
FH (60°-80°)	2150.9	31.8			G2/5000
FVH (80°-90°)	71.3	1.1			G1/100
BL (0°-30°)	256.0	3.8	B1/500		
BM (30°-60°)	531.2	7.9	B1/1000		
BH (60°-80°)	427.3	6.3	B1/500		G1/500
BVH (80°-90°)	56.3	0.8			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	948.0	948.0	948.0	948.0	948.0	948.0	948.0	948.0	948.0	948.0	948.0
2.5°	1040.9	1038.6	1038.3	1031.6	1028.0	1020.6	1002.8	984.7	968.0	959.1	949.8
5°	1127.9	1123.5	1121.3	1110.2	1100.6	1083.6	1055.9	1027.1	997.1	981.6	963.1
7.5°	1180.6	1180.9	1180.9	1172.1	1162.3	1142.0	1106.7	1067.4	1022.7	1002.4	973.3
10°	1185.0	1185.4	1192.1	1194.1	1196.5	1185.9	1153.1	1103.6	1046.2	1019.7	981.6
12.5°	1141.1	1144.3	1155.3	1171.2	1193.8	1205.3	1191.2	1142.5	1076.2	1043.9	997.5
15°	1082.4	1085.4	1099.6	1123.9	1160.2	1198.6	1218.6	1187.1	1115.5	1077.4	1021.0
17.5°	1053.6	1057.1	1066.8	1086.3	1121.8	1173.5	1233.1	1234.8	1161.9	1118.2	1048.9
20°	1040.0	1042.7	1055.0	1070.9	1097.9	1147.3	1234.5	1285.3	1217.2	1166.4	1082.7
22.5°	1071.3	1072.1	1078.3	1087.2	1105.4	1143.4	1233.6	1337.3	1286.2	1226.8	1126.6
25°	1163.2	1157.5	1153.1	1142.0	1146.4	1173.5	1247.7	1393.1	1374.4	1306.5	1185.0
27.5°	1272.0	1271.1	1259.7	1233.9	1217.7	1234.8	1287.9	1455.4	1482.8	1407.6	1261.4
30°	1393.1	1393.5	1381.7	1350.2	1317.0	1318.8	1351.9	1527.5	1612.3	1529.6	1355.5
32.5°	1519.9	1527.8	1505.7	1474.4	1434.1	1421.4	1443.8	1614.6	1762.1	1673.7	1464.6
35°	1671.6	1672.9	1648.5	1602.5	1562.3	1542.0	1562.8	1723.2	1934.9	1843.1	1597.6
37.5°	1828.9	1829.8	1804.5	1745.8	1694.9	1681.6	1704.7	1855.4	2117.9	2035.6	1754.2
40°	1957.4	1966.7	1946.8	1891.7	1840.4	1832.5	1865.5	2013.6	2351.8	2263.8	1940.2
42.5°	2103.3	2113.9	2090.0	2032.5	1991.9	1989.2	2040.9	2193.9	2584.2	2527.7	2151.0
45°	2267.7	2282.8	2249.5	2185.0	2150.6	2208.9	2212.0	2393.7	2851.9	2822.8	2388.4
47.5°	2447.2	2459.5	2432.6	2363.3	2325.6	2410.1	2379.5	2609.8	3141.6	3139.2	2645.1
50°	2585.5	2599.2	2601.9	2571.4	2532.1	2542.7	2563.5	2836.9	3430.1	3464.6	2910.8
52.5°	2560.3	2573.6	2633.2	2713.2	2776.4	2749.1	2774.2	3078.3	3709.0	3782.0	3163.1
55°	2357.1	2364.1	2475.9	2665.9	2935.1	3065.9	3067.7	3340.7	3974.1	4076.2	3402.7
57.5°	1990.6	1991.5	2136.9	2417.1	2842.7	3271.4	3530.9	3670.6	4250.8	4401.5	3699.7
60°	1408.5	1412.0	1581.3	1947.7	2511.8	3246.7	4029.0	4260.5	4571.3	4767.0	4082.4
62.5°	836.2	844.1	971.8	1265.8	1865.5	2928.5	4323.4	5310.2	5043.3	5303.1	4695.0
65°	544.1	550.8	627.1	774.8	1102.3	2130.7	4226.5	6326.8	5936.4	6146.5	5575.4
67.5°	419.0	424.3	484.4	573.7	676.2	1151.7	3379.2	6539.8	7023.7	7089.2	6318.3
69°	368.1	372.5	416.8	502.5	569.3	762.4	2518.3	6153.0	7295.6	7331.2	6327.7
70°	341.1	344.7	386.4	460.6	522.9	608.6	1927.5	5704.0	7196.1	7287.6	6145.0
72.5°	281.1	284.1	313.8	370.8	427.4	433.5	853.8	4165.1	6059.3	6351.9	5200.2
75°	234.6	236.4	255.8	297.5	346.0	345.2	436.2	2359.2	3697.5	4046.1	3210.9
77.5°	195.8	197.1	209.9	235.5	273.2	271.7	307.2	1018.3	1632.6	1575.2	1105.4
80°	172.8	173.7	180.3	186.9	210.8	209.5	227.6	467.6	664.2	613.9	418.2
82.5°	131.2	132.9	166.6	169.7	163.5	157.8	158.7	272.2	340.3	309.8	224.5
85°	74.3	74.6	107.0	125.0	142.3	107.0	102.9	140.6	168.0	147.2	98.2
87.5°	33.1	34.5	51.3	59.2	77.0	62.7	58.7	59.6	72.5	60.0	38.8
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°	948.0	948.0	948.0	948.0	948.0	948.0	948.0	948.0	948.0	948.0	948.0
2.5°	941.0	933.3	915.7	897.6	879.5	868.0	856.1	845.0	840.6	840.2	831.8
5°	944.9	927.2	887.0	842.8	800.8	768.1	740.7	723.0	705.8	702.7	695.2
7.5°	946.3	917.4	852.1	781.3	717.2	672.2	644.9	632.9	624.5	622.3	619.7
10°	945.8	905.1	813.2	716.4	643.5	609.5	599.3	602.0	605.5	607.3	607.3
12.5°	952.9	899.5	774.2	655.5	595.8	579.3	587.4	601.1	611.7	616.1	617.0
15°	965.7	895.9	731.5	602.5	562.2	566.1	585.6	605.5	620.5	627.1	629.0
17.5°	981.6	890.9	682.0	558.7	542.8	556.4	581.7	606.9	625.0	633.3	634.7
20°	999.3	883.9	630.7	526.0	525.5	542.8	567.9	596.3	615.7	625.0	624.5
22.5°	1023.2	877.4	583.0	502.1	506.5	522.5	543.1	568.7	587.0	595.3	593.6
25°	1055.0	871.0	540.2	480.9	484.8	495.4	510.1	529.6	542.2	546.7	543.7
27.5°	1097.9	866.2	506.5	461.4	461.0	465.9	474.7	485.3	491.5	490.1	485.3
30°	1150.4	861.4	481.8	444.2	438.1	437.6	441.5	447.7	451.7	443.8	439.8
32.5°	1209.2	853.0	459.7	429.1	418.2	414.1	415.8	424.3	440.7	432.7	429.6
35°	1278.6	843.2	437.6	412.9	404.3	397.0	398.2	416.4	465.9	460.1	457.0
37.5°	1362.1	834.4	417.3	395.2	394.6	385.5	384.6	406.2	472.5	460.1	457.4
40°	1462.5	832.6	399.0	375.8	382.8	379.3	376.1	389.3	435.8	410.5	405.8
42.5°	1583.5	840.6	385.8	357.0	369.1	377.5	371.7	374.9	393.7	371.3	367.2
45°	1724.9	862.3	376.1	340.7	354.4	376.1	369.6	366.9	369.9	357.5	354.9
47.5°	1889.9	900.7	369.6	327.1	340.7	372.5	368.7	363.4	361.9	354.9	353.2
50°	2066.2	952.5	365.2	314.6	328.4	366.4	368.1	360.6	358.5	355.3	354.4
52.5°	2241.2	1008.5	359.7	304.0	318.2	358.9	368.7	358.0	354.9	353.2	352.2
55°	2415.4	1066.8	350.0	294.9	310.8	350.0	368.1	354.4	350.9	350.9	350.9
57.5°	2641.1	1155.7	337.3	287.3	301.0	338.5	362.3	350.5	345.6	346.0	346.4
60°	2967.3	1304.7	323.1	278.8	288.1	325.2	353.6	343.4	337.7	339.4	339.9
62.5°	3512.4	1564.9	303.6	266.9	274.9	311.2	342.1	333.7	328.4	331.5	332.0
65°	4238.9	1880.2	277.9	252.0	261.1	295.3	327.5	322.2	316.5	324.0	323.5
67.5°	4682.1	1972.5	251.0	236.1	247.9	278.5	309.3	307.2	303.2	316.5	315.6
69°	4536.8	1805.5	235.5	225.8	238.7	266.9	297.9	297.0	293.9	306.7	305.9
70°	4311.0	1649.4	225.8	219.2	233.7	259.9	290.3	290.3	287.3	298.3	296.1
72.5°	3462.7	1223.3	203.2	202.4	217.0	240.4	270.0	272.2	270.5	274.4	272.2
75°	2033.0	737.1	181.2	183.9	196.6	219.6	247.6	249.3	247.6	247.0	247.6
77.5°	704.9	330.5	160.0	164.0	175.0	198.4	222.8	226.4	223.7	220.5	221.4
80°	275.8	192.2	137.0	142.7	152.1	174.6	197.9	200.2	196.2	195.8	192.2
82.5°	165.7	117.0	106.4	115.8	127.3	151.6	171.0	170.1	167.1	185.2	162.2
85°	72.0	64.9	77.9	87.0	92.9	113.5	144.4	140.6	132.9	117.0	114.4
87.5°	29.1	33.5	42.8	51.7	55.7	73.4	99.1	95.5	96.7	79.6	79.1
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)