

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: P196339

Luminaire Tested: **NVN-AF-01-LED-U-T3R-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P196339
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24250)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-AF-01-LED-U-T3R-1200
Description: NAVION ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6973.4 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Full Cutoff
BUG Rating: B1 - U0 - G2

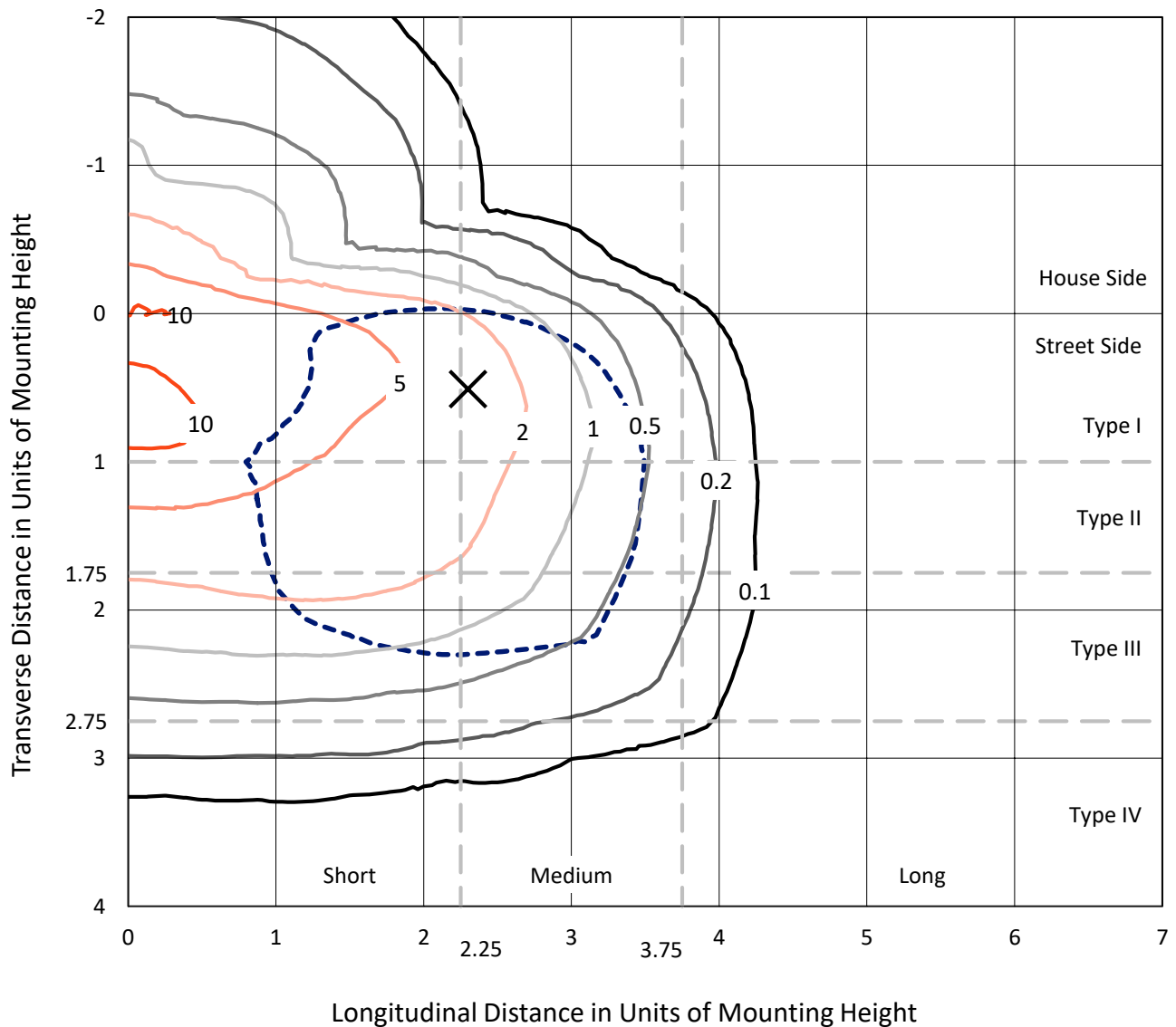
Input Watts (W): 67
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

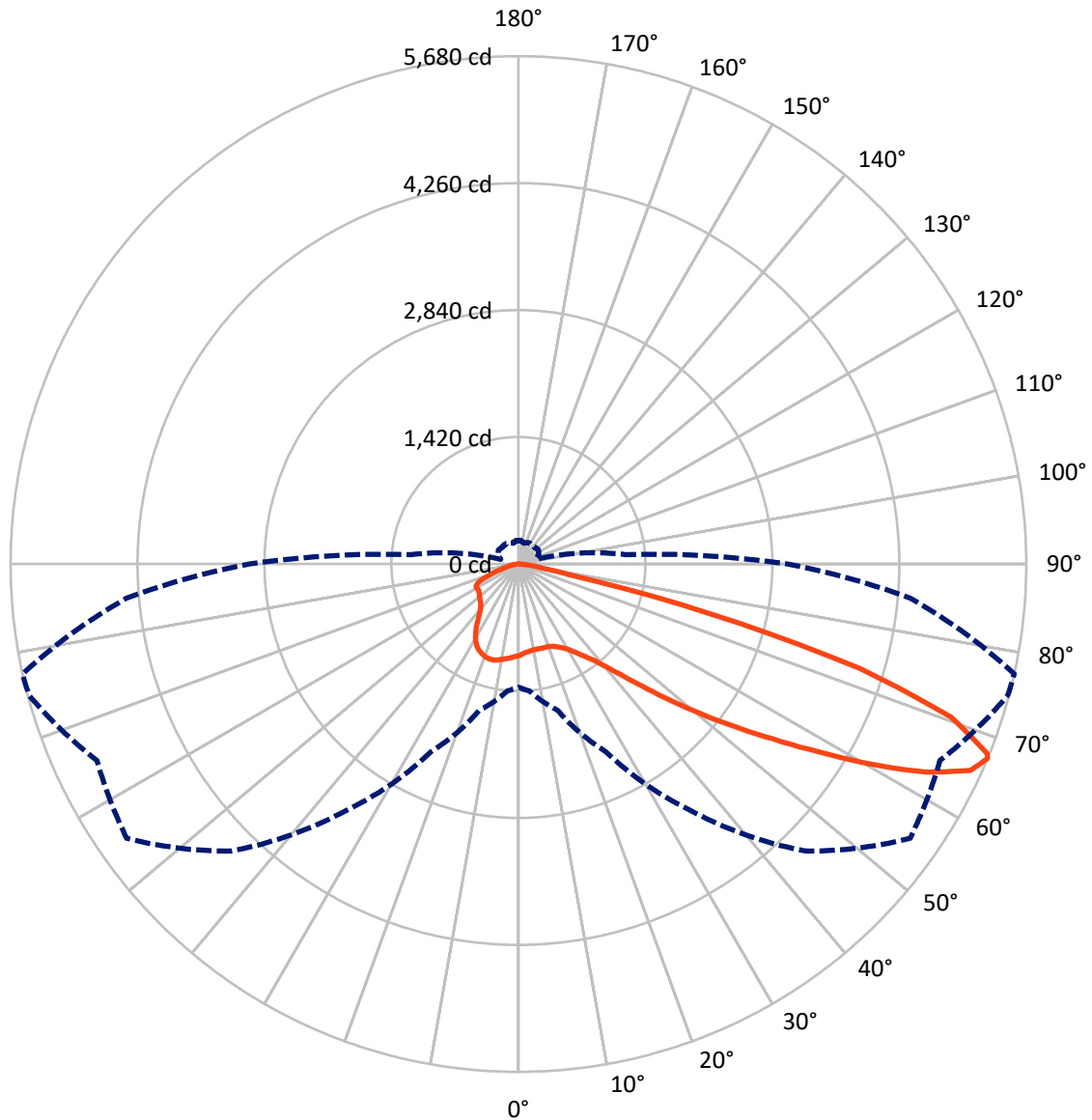
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.3 fc
 Type III - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1198.4	0.0	1198.4
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	5775.1	0.0	5775.1
	% Fixture	82.8	0.0	82.8
Total	Lumens	6973.4	0.0	6973.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.4	1.3
10°-20°	253.1	3.6
20°-30°	430.1	6.2
30°-40°	688.1	9.9
40°-50°	1059.3	15.2
50°-60°	1469.7	21.1
60°-70°	1960.4	28.1
70°-80°	933.0	13.4
80°-90°	88.3	1.3
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°	6973.4	100.0
0°-180°	6973.4	100.0



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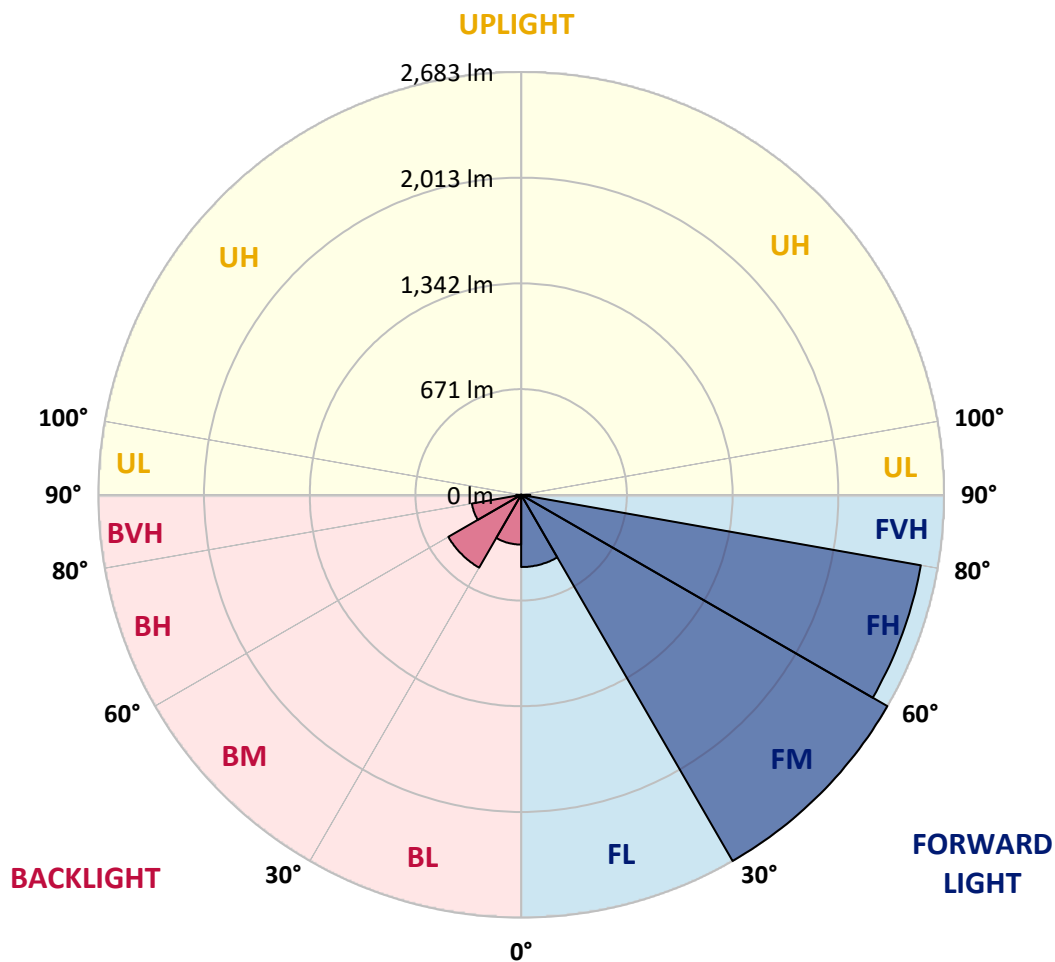
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	458.6	6.6			
FM	(30°-60°)	2683.5	38.5			
FH	(60°-80°)	2575.7	36.9			G2/5000
FVH	(80°-90°)	57.4	0.8			G1/100
BL	(0°-30°)	316.1	4.5	B1/500		
BM	(30°-60°)	533.6	7.7	B1/1000		
BH	(60°-80°)	317.8	4.6	B1/500		G1/500
BVH	(80°-90°)	31.0	0.4			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	1026.3	1026.3	1026.3	1026.3	1026.3	1026.3	1026.3	1026.3	1026.3	1026.3	1026.3
2.5°	920.2	924.5	925.1	937.5	943.2	957.4	972.8	986.6	998.7	1003.0	1010.8
5°	828.1	828.1	829.3	837.5	853.4	876.3	908.6	944.0	981.0	990.1	1012.9
7.5°	779.8	780.6	781.4	789.7	802.2	822.5	854.8	903.1	964.6	979.8	1019.9
10°	784.1	782.8	778.5	776.7	781.9	794.8	822.9	872.5	950.8	974.2	1032.4
12.5°	851.7	849.2	834.9	814.3	795.2	790.5	810.0	856.9	944.4	974.2	1053.4
15°	967.7	969.5	941.4	898.3	848.7	815.1	812.5	851.3	942.2	976.7	1078.0
17.5°	1118.6	1119.4	1080.6	1018.1	935.8	866.4	830.2	851.3	942.2	979.4	1101.7
20°	1278.9	1272.9	1228.9	1150.4	1043.5	937.5	862.6	856.5	944.8	983.2	1124.1
22.5°	1416.4	1410.8	1364.7	1282.4	1159.9	1021.5	906.0	873.7	959.0	999.1	1155.6
25°	1536.7	1540.2	1495.2	1402.6	1275.9	1116.3	971.1	913.4	988.8	1028.1	1194.4
27.5°	1682.8	1676.3	1624.5	1536.3	1395.3	1214.7	1052.6	963.4	1024.2	1062.9	1241.9
30°	1851.7	1848.8	1778.9	1688.0	1526.8	1324.6	1133.2	1017.2	1070.3	1110.8	1301.3
32.5°	2056.9	2056.5	1981.5	1869.9	1674.6	1448.7	1228.5	1091.0	1137.5	1178.4	1380.2
35°	2289.3	2288.9	2211.2	2063.8	1844.9	1586.2	1340.6	1180.6	1220.7	1263.9	1474.2
37.5°	2450.5	2447.9	2407.4	2264.3	2033.2	1746.2	1480.6	1301.3	1315.1	1363.4	1587.5
40°	2481.5	2497.0	2531.9	2447.4	2238.8	1923.8	1621.2	1431.1	1444.0	1506.1	1730.2
42.5°	2447.9	2468.2	2584.1	2607.8	2444.4	2138.8	1797.0	1610.8	1627.2	1704.3	1897.9
45°	2418.6	2436.3	2581.5	2696.6	2647.5	2373.3	2016.4	1830.2	1861.3	1956.9	2089.3
47.5°	2368.5	2384.9	2530.7	2712.6	2763.4	2599.2	2280.7	2094.0	2147.5	2263.4	2307.4
50°	2366.0	2373.3	2461.2	2659.1	2803.5	2770.8	2573.3	2402.6	2484.5	2618.1	2548.8
52.5°	2300.5	2351.8	2431.6	2573.7	2804.3	2870.7	2861.7	2741.0	2867.3	3015.1	2813.4
55°	1899.6	1958.6	2332.3	2531.9	2799.2	2956.5	3125.0	3100.9	3298.3	3453.9	3110.0
57.5°	1773.7	1798.8	2046.1	2544.5	2842.3	3098.3	3388.4	3487.5	3791.5	3961.3	3465.6
60°	1739.2	1765.5	1988.8	2550.4	2959.1	3356.5	3745.7	3924.2	4371.2	4551.4	3869.4
62.5°	1700.9	1734.9	1993.1	2556.0	3164.3	3738.4	4219.9	4397.9	4966.4	5127.2	4247.9
65°	1588.8	1634.1	1913.4	2520.8	3388.8	4217.7	4846.6	4891.9	5458.3	5560.5	4476.3
67°	1376.3	1425.9	1694.4	2316.4	3368.2	4540.6	5347.9	5201.0	5667.4	5679.8	4402.3
67.5°	1309.1	1360.3	1620.3	2231.5	3309.1	4582.8	5436.7	5243.6	5665.6	5651.8	4333.2
70°	881.5	939.3	1147.4	1638.4	2654.4	4265.2	5415.2	5112.2	5294.1	5135.8	3722.9
72.5°	437.5	439.3	572.4	897.4	1608.2	3059.1	4517.4	4373.3	4291.5	3992.8	2731.9
75°	210.8	214.6	270.3	396.6	678.0	1579.3	3080.6	2950.9	2512.6	2175.5	1367.3
77.5°	160.8	164.7	209.9	258.2	282.7	515.1	1525.9	1233.2	728.0	581.4	385.3
80°	124.2	131.4	177.2	198.2	187.1	206.4	479.8	377.6	283.2	259.9	191.0
82.5°	97.0	101.3	150.5	150.5	129.3	138.4	223.3	218.1	175.8	158.7	102.6
85°	68.5	77.1	121.1	112.1	84.9	85.8	133.6	128.0	90.5	72.8	40.1
87.5°	30.6	39.2	86.2	73.2	45.2	34.9	54.7	47.0	35.8	27.6	18.5
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°	1026.3	1026.3	1026.3	1026.3	1026.3	1026.3	1026.3	1026.3	1026.3	1026.3	1026.3
2.5°	1019.4	1026.3	1037.1	1043.5	1052.2	1055.6	1059.1	1065.1	1069.8	1068.6	1066.4
5°	1028.9	1040.5	1053.9	1058.2	1058.2	1053.9	1051.3	1051.7	1050.5	1049.5	1047.0
7.5°	1042.7	1058.7	1068.2	1063.8	1050.5	1033.6	1017.7	1008.2	999.1	993.6	995.2
10°	1062.1	1079.7	1080.2	1061.2	1029.3	992.7	961.3	941.0	921.6	913.0	915.5
12.5°	1090.1	1107.8	1092.7	1051.7	995.7	938.4	880.7	838.8	801.3	792.3	789.7
15°	1120.2	1134.0	1100.5	1031.4	947.5	853.0	756.1	693.6	651.7	644.4	641.8
17.5°	1146.5	1154.3	1096.6	995.2	871.1	722.4	609.5	567.2	558.6	562.9	562.9
20°	1169.8	1167.3	1079.7	939.3	750.8	577.6	512.1	511.7	523.2	534.1	534.9
22.5°	1199.2	1178.8	1053.0	856.0	607.3	481.9	470.7	481.9	494.8	506.9	508.2
25°	1234.1	1191.8	1017.2	737.5	488.4	437.5	442.2	451.7	459.9	469.4	469.8
27.5°	1269.0	1201.8	966.8	598.3	423.7	409.1	414.2	418.1	420.2	426.3	426.3
30°	1309.5	1209.5	894.0	479.4	393.9	384.0	381.0	379.3	381.0	389.2	389.6
32.5°	1360.3	1223.2	794.4	411.2	380.1	366.4	350.9	342.3	348.3	362.9	365.5
35°	1418.1	1239.7	675.0	384.0	375.4	357.7	329.3	316.0	318.1	331.4	333.6
37.5°	1490.5	1260.8	557.3	377.6	380.1	356.9	319.4	300.4	290.9	291.3	290.9
40°	1583.2	1282.0	464.2	379.3	390.6	359.1	314.7	284.9	265.0	266.0	267.7
42.5°	1680.2	1295.7	405.2	384.5	403.0	362.1	312.9	269.9	252.6	267.2	280.6
45°	1793.5	1291.8	374.6	389.2	412.6	363.4	306.5	268.1	253.9	297.9	322.8
47.5°	1923.8	1275.0	357.3	391.4	415.1	362.9	301.8	273.7	264.6	340.9	369.4
50°	2065.1	1248.7	343.5	387.9	413.8	361.2	306.9	280.6	268.9	350.5	372.5
52.5°	2219.9	1224.6	329.3	380.1	407.3	356.1	313.3	277.6	256.9	322.8	339.6
55°	2403.0	1218.9	313.3	366.8	396.6	350.5	310.0	268.1	243.6	286.2	296.6
57.5°	2612.5	1253.9	292.7	350.5	381.9	339.2	301.8	262.9	238.8	260.3	266.0
60°	2878.5	1331.1	270.7	333.2	363.8	322.4	294.4	264.2	240.1	256.5	257.8
62.5°	3086.2	1400.4	250.8	312.1	339.6	302.2	286.6	265.6	244.0	261.7	259.5
65°	3161.7	1366.4	226.3	280.6	305.7	279.8	275.9	266.4	244.0	264.6	259.9
67°	3007.0	1203.9	203.1	249.2	273.2	259.9	265.6	262.9	239.7	264.2	256.0
67.5°	2933.2	1146.5	197.0	244.0	264.6	253.9	262.9	261.3	238.3	263.4	253.9
70°	2419.0	822.5	166.3	204.8	221.6	223.7	246.9	250.0	228.0	247.5	230.2
72.5°	1721.1	514.6	143.5	158.7	178.9	191.4	225.5	234.9	214.2	215.1	200.9
75°	851.7	276.3	128.0	122.4	139.2	159.5	196.5	214.2	194.0	179.3	174.6
77.5°	287.6	156.5	108.2	98.7	108.2	128.0	163.0	187.1	171.1	151.7	148.7
80°	148.7	113.8	84.5	79.3	85.3	99.1	127.6	155.6	146.1	147.0	121.1
82.5°	92.7	69.4	60.8	60.4	64.7	75.9	94.0	126.3	125.4	107.3	78.1
85°	43.1	40.1	38.8	40.1	41.4	43.1	61.2	90.1	95.2	57.8	51.2
87.5°	18.1	17.7	15.5	16.8	18.5	18.1	24.6	38.4	53.4	36.2	33.1
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)