

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: P197292

Luminaire Tested: **NVN-AF-06-LED-U-T3R-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197292
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-06-LED-U-T3R-8030-800
Description: NAVION ROADWAY AND AREA LUMINAIRE
(6) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24155 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Medium - Full Cutoff
BUG Rating: B3 - U0 - G4

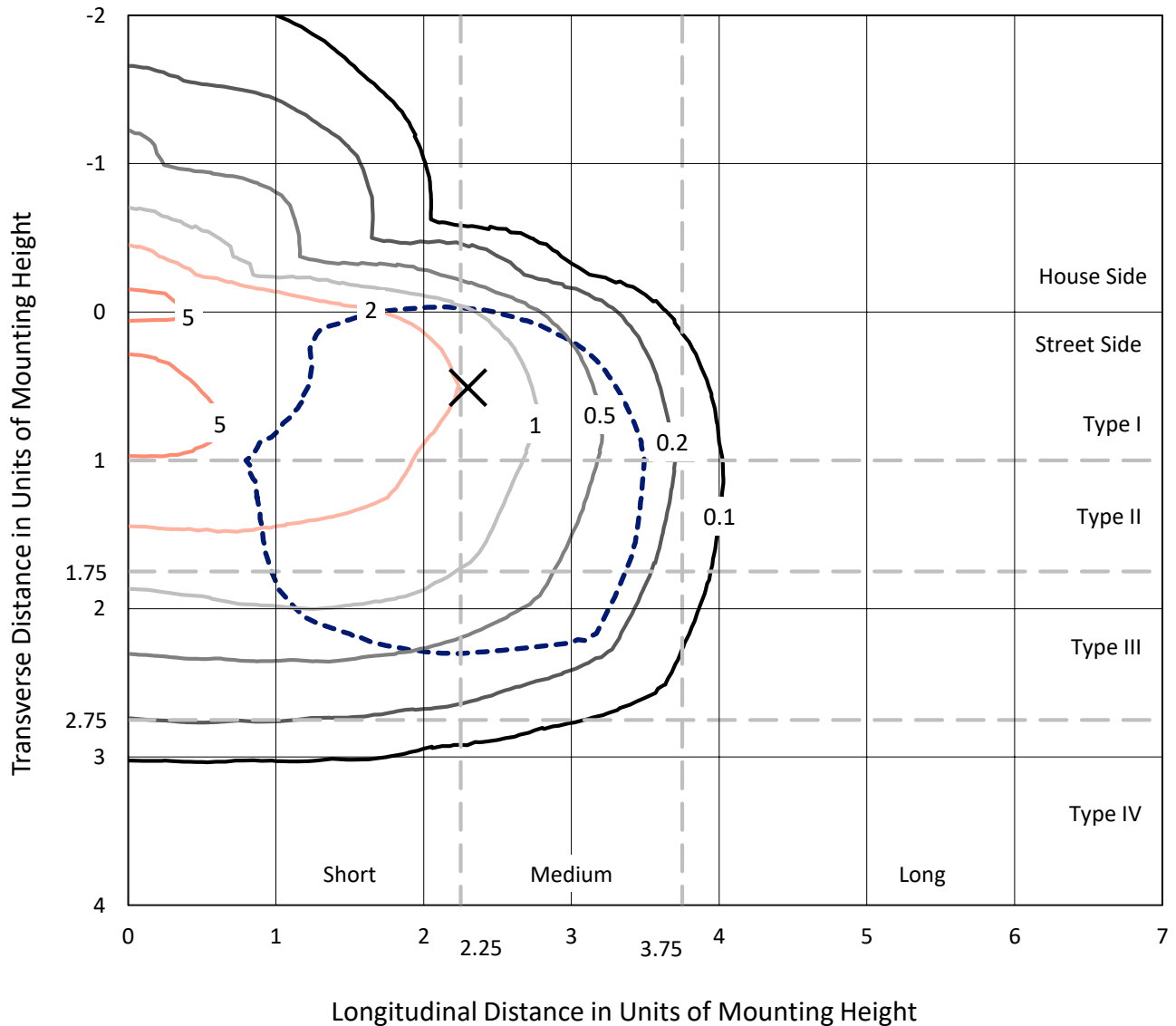
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P197292
 CATALOG NUMBER: NVN-AF-06-LED-U-T3R-8030-800

Iso-Footcandle Lines of Horizontal Illumination

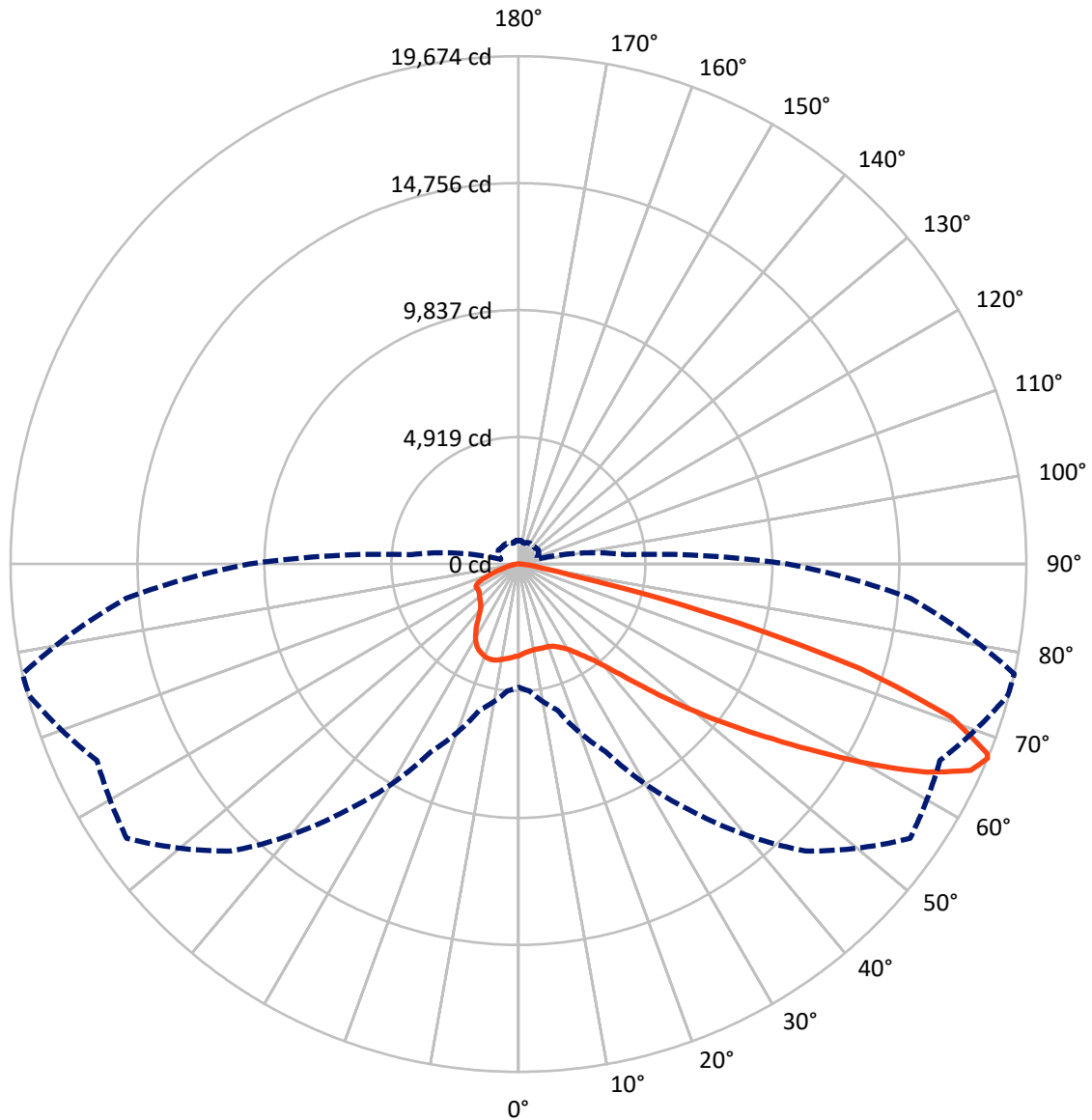
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Medium - Full Cutoff

REPORT NUMBER: P197292
CATALOG NUMBER: NVN-AF-06-LED-U-T3R-8030-800

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	4151.0	0.0	4151.0
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	20004.0	0.0	20004.0
	% Fixture	82.8	0.0	82.8
Total	Lumens	24155.0	0.0	24155.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.6	1.3
10°-20°	876.8	3.6
20°-30°	1489.8	6.2
30°-40°	2383.4	9.9
40°-50°	3669.2	15.2
50°-60°	5090.7	21.1
60°-70°	6790.7	28.1
70°-80°	3231.7	13.4
80°-90°	306.0	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°	24155.0	100.0
0°-180°	24155.0	100.0



REPORT NUMBER: P197292

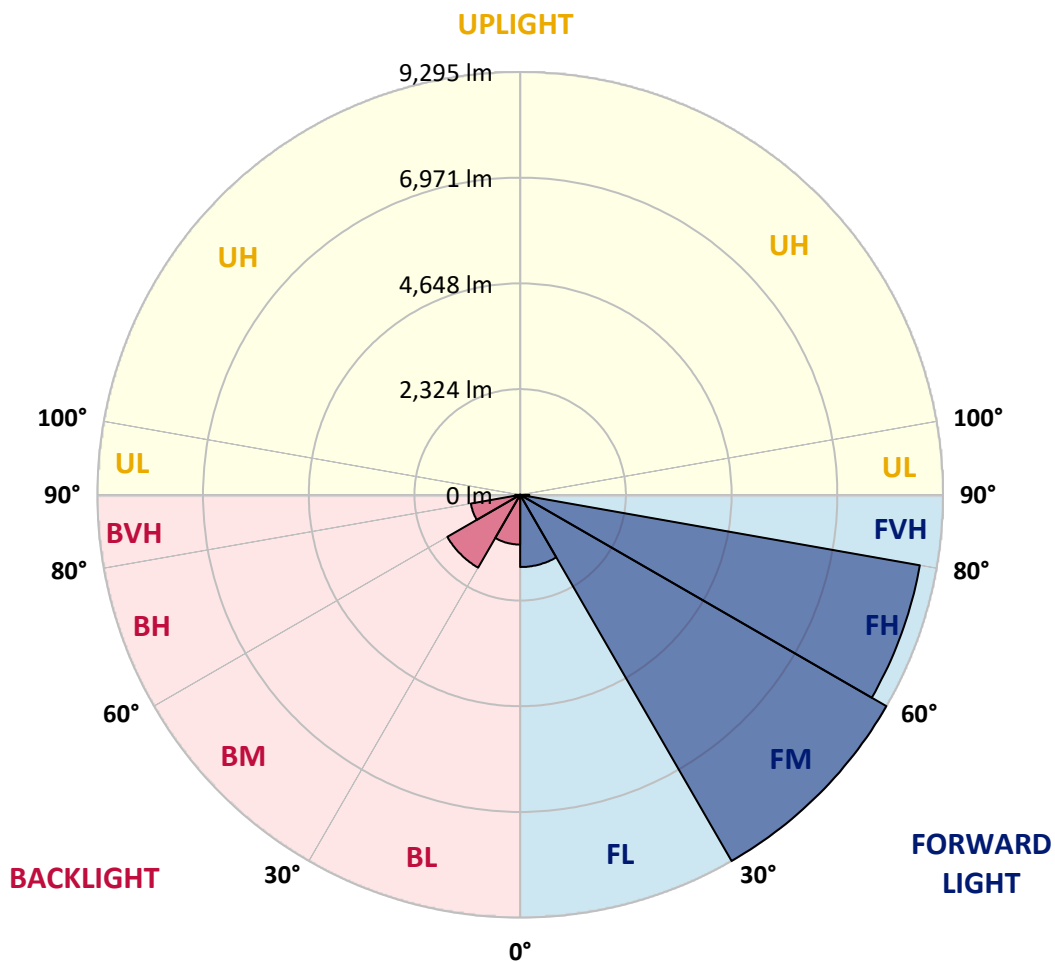
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1588.4	6.6			
FM	(30°-60°)	9295.1	38.5			
FH	(60°-80°)	8921.7	36.9			G4/12000
FVH	(80°-90°)	198.7	0.8			G2/225
BL	(0°-30°)	1094.9	4.5	B3/2500		
BM	(30°-60°)	1848.3	7.7	B2/2500		
BH	(60°-80°)	1100.6	4.6	B3/2500		G3/2500
BVH	(80°-90°)	107.3	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





REPORT NUMBER: P197292

CATALOG NUMBER: NVN-AF-06-LED-U-T3R-8030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	3555.0	3555.0	3555.0	3555.0	3555.0	3555.0	3555.0	3555.0	3555.0	3555.0	3555.0
2.5°	3187.7	3202.6	3204.1	3247.4	3266.8	3316.1	3369.8	3417.6	3459.4	3474.4	3501.2
5°	2868.2	2868.2	2872.7	2901.0	2956.3	3035.4	3147.4	3269.8	3398.2	3429.6	3508.7
7.5°	2700.9	2703.9	2706.9	2735.3	2778.6	2848.8	2960.7	3128.0	3341.5	3393.7	3532.6
10°	2715.9	2711.4	2696.5	2690.5	2708.4	2753.2	2850.3	3022.0	3293.7	3374.3	3575.9
12.5°	2950.3	2941.3	2892.1	2820.4	2754.7	2738.3	2805.5	2968.2	3271.3	3374.3	3649.0
15°	3351.9	3357.9	3260.8	3111.5	2939.8	2823.4	2814.4	2948.8	3263.8	3383.3	3734.1
17.5°	3874.5	3877.5	3743.1	3526.6	3241.4	3001.1	2875.6	2948.8	3263.8	3392.2	3816.3
20°	4429.9	4409.0	4256.7	3985.0	3614.7	3247.4	2987.6	2966.7	3272.8	3405.7	3893.9
22.5°	4906.2	4886.8	4727.0	4441.9	4017.8	3538.6	3138.4	3026.4	3322.1	3460.9	4002.9
25°	5322.8	5334.7	5179.4	4858.4	4419.5	3867.0	3363.9	3163.8	3425.1	3561.0	4137.3
27.5°	5828.9	5806.5	5627.4	5321.3	4833.0	4207.4	3646.1	3337.0	3547.5	3681.9	4301.5
30°	6414.2	6403.7	6161.9	5846.8	5288.4	4588.2	3925.3	3523.6	3707.3	3847.6	4507.6
32.5°	7124.9	7123.4	6863.6	6476.9	5800.5	5018.2	4255.2	3778.9	3940.2	4082.0	4780.8
35°	7929.7	7928.2	7659.4	7148.8	6390.3	5494.5	4643.4	4089.5	4228.4	4377.7	5106.3
37.5°	8488.1	8479.1	8338.8	7843.1	7042.8	6048.4	5128.7	4507.6	4555.3	4722.6	5498.9
40°	8595.6	8649.3	8770.2	8477.6	7755.0	6663.5	5615.4	4957.0	5001.8	5216.8	5993.2
42.5°	8479.1	8549.3	8950.9	9033.0	8467.2	7408.6	6224.6	5579.6	5636.3	5903.6	6574.0
45°	8377.6	8438.8	8942.0	9340.6	9170.4	8220.8	6984.5	6339.5	6447.0	6778.5	7236.9
47.5°	8204.4	8261.1	8765.8	9395.8	9572.0	9003.2	7899.8	7253.3	7438.4	7840.1	7992.4
50°	8195.4	8220.8	8525.4	9210.7	9710.9	9597.4	8913.6	8322.3	8606.0	9068.9	8828.5
52.5°	7968.5	8146.1	8422.4	8915.1	9713.9	9943.8	9912.4	9494.4	9931.9	10444.0	9745.2
55°	6579.9	6784.5	8079.0	8770.2	9695.9	10240.9	10824.7	10741.1	11424.9	11963.9	10772.4
57.5°	6144.0	6230.5	7087.6	8813.5	9845.3	10732.1	11737.0	12080.4	13133.0	13721.2	12004.2
60°	6024.5	6115.6	6889.0	8834.4	10249.9	11626.5	12974.7	13592.8	15141.1	15765.2	13403.2
62.5°	5891.6	6009.6	6903.9	8853.9	10960.6	12949.3	14617.1	15233.7	17203.1	17760.0	14714.1
65°	5503.4	5660.2	6627.7	8731.4	11738.5	14609.6	16788.0	16944.8	18906.6	19260.5	15505.5
67°	4767.3	4939.1	5869.2	8023.7	11666.8	15727.9	18524.4	18015.3	19630.8	19674.1	15248.6
67.5°	4534.4	4712.1	5612.4	7729.6	11462.2	15874.2	18832.0	18163.1	19624.8	19577.0	15009.8
70°	3053.3	3253.4	3974.5	5675.1	9194.3	14773.9	18757.3	17707.7	18337.8	17789.8	12895.6
72.5°	1515.5	1521.4	1982.8	3108.6	5570.6	10596.3	15647.3	15148.6	14864.9	13830.2	9463.0
75°	730.1	743.5	936.2	1373.6	2348.6	5470.6	10670.9	10221.5	8703.1	7535.5	4736.0
77.5°	556.9	570.3	727.1	894.3	979.4	1784.2	5285.4	4271.7	2521.8	2014.1	1334.8
80°	430.0	455.4	613.6	686.8	648.0	715.2	1661.8	1307.9	980.9	900.3	661.4
82.5°	335.9	350.9	521.1	521.1	447.9	479.3	773.4	755.5	609.2	549.4	355.3
85°	237.4	267.3	419.6	388.2	294.1	297.1	462.8	443.4	313.5	252.3	138.9
87.5°	106.0	135.9	298.6	253.8	156.8	120.9	189.6	162.7	123.9	95.6	64.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P197292

CATALOG NUMBER: NVN-AF-06-LED-U-T3R-8030-800

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3555.0	3555.0	3555.0	3555.0	3555.0	3555.0	3555.0	3555.0	3555.0	3555.0	3555.0
2.5°	3531.1	3555.0	3592.3	3614.7	3644.6	3656.5	3668.5	3689.4	3705.8	3701.3	3693.8
5°	3563.9	3604.3	3650.5	3665.5	3665.5	3650.5	3641.6	3643.1	3638.6	3635.6	3626.6
7.5°	3611.7	3667.0	3699.8	3684.9	3638.6	3580.4	3525.1	3492.3	3460.9	3441.5	3447.5
10°	3678.9	3740.1	3741.6	3675.9	3565.4	3438.5	3329.5	3259.4	3192.2	3162.3	3171.3
12.5°	3776.0	3837.2	3784.9	3643.1	3449.0	3250.4	3050.3	2905.5	2775.6	2744.2	2735.3
15°	3880.5	3928.2	3811.8	3572.9	3281.8	2954.8	2618.8	2402.3	2257.5	2232.1	2223.2
17.5°	3971.5	3998.4	3798.4	3447.5	3017.5	2502.4	2111.2	1964.9	1935.0	1949.9	1949.9
20°	4052.2	4043.2	3740.1	3253.4	2600.9	2000.7	1773.8	1772.3	1812.6	1849.9	1852.9
22.5°	4153.7	4083.5	3647.6	2965.2	2103.7	1669.2	1630.4	1669.2	1714.0	1755.8	1760.3
25°	4274.6	4128.3	3523.6	2554.6	1691.6	1515.5	1531.9	1564.7	1593.1	1625.9	1627.4
27.5°	4395.6	4162.7	3348.9	2072.4	1467.7	1416.9	1434.8	1448.3	1455.7	1476.6	1476.6
30°	4535.9	4189.5	3096.6	1660.3	1364.7	1330.3	1319.9	1313.9	1319.9	1348.2	1349.7
32.5°	4712.1	4237.3	2751.7	1424.4	1316.9	1269.1	1215.4	1185.5	1206.4	1257.2	1266.1
35°	4912.2	4294.0	2338.1	1330.3	1300.5	1239.2	1140.7	1094.4	1101.9	1148.2	1155.6
37.5°	5163.0	4367.2	1930.5	1307.9	1316.9	1236.3	1106.4	1040.7	1007.8	1009.3	1007.8
40°	5484.0	4440.4	1608.0	1313.9	1352.7	1243.7	1089.9	986.9	918.2	921.2	927.2
42.5°	5820.0	4488.1	1403.5	1331.8	1396.0	1254.2	1084.0	934.7	874.9	925.7	972.0
45°	6212.6	4474.7	1297.5	1348.2	1428.9	1258.7	1061.6	928.7	879.4	1031.7	1118.3
47.5°	6663.5	4416.5	1237.7	1355.7	1437.8	1257.2	1045.1	948.1	916.7	1181.0	1279.6
50°	7153.3	4325.4	1190.0	1343.8	1433.3	1251.2	1063.1	972.0	931.7	1213.9	1290.0
52.5°	7689.3	4241.8	1140.7	1316.9	1410.9	1233.3	1085.5	961.5	889.9	1118.3	1176.5
55°	8323.8	4222.4	1085.5	1270.6	1373.6	1213.9	1073.5	928.7	843.6	991.4	1027.2
57.5°	9049.5	4343.3	1013.8	1213.9	1322.9	1175.0	1045.1	910.8	827.2	901.8	921.2
60°	9970.7	4610.6	937.6	1154.1	1260.1	1116.8	1019.8	915.2	831.6	888.4	892.9
62.5°	10690.3	4851.0	869.0	1081.0	1176.5	1046.6	992.9	919.7	845.1	906.3	898.8
65°	10951.6	4733.0	783.9	972.0	1058.6	969.0	955.6	922.7	845.1	916.7	900.3
67°	10415.6	4170.1	703.2	863.0	946.6	900.3	919.7	910.8	830.1	915.2	886.9
67.5°	10160.3	3971.5	682.3	845.1	916.7	879.4	910.8	904.8	825.7	912.3	879.4
70°	8379.1	2848.8	576.3	709.2	767.4	774.9	855.5	866.0	789.8	857.0	797.3
72.5°	5961.8	1782.7	497.2	549.4	619.6	662.9	780.9	813.7	742.1	745.0	695.8
75°	2950.3	957.1	443.4	424.0	482.3	552.4	680.8	742.1	671.9	621.1	604.7
77.5°	995.9	542.0	374.8	341.9	374.8	443.4	564.4	648.0	592.7	525.6	515.1
80°	515.1	394.2	292.6	274.7	295.6	343.4	441.9	539.0	506.1	509.1	419.6
82.5°	321.0	240.4	210.5	209.0	224.0	262.8	325.5	437.5	434.5	371.8	270.2
85°	149.3	138.9	134.4	138.9	143.3	149.3	212.0	312.1	330.0	200.1	177.7
87.5°	62.7	61.2	53.8	58.2	64.2	62.7	85.1	132.9	185.1	125.4	115.0
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)