

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: P885350

Luminaire Tested: **NVN-SB6C-830-U-T4FT-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885350
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB6C-830-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30115 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

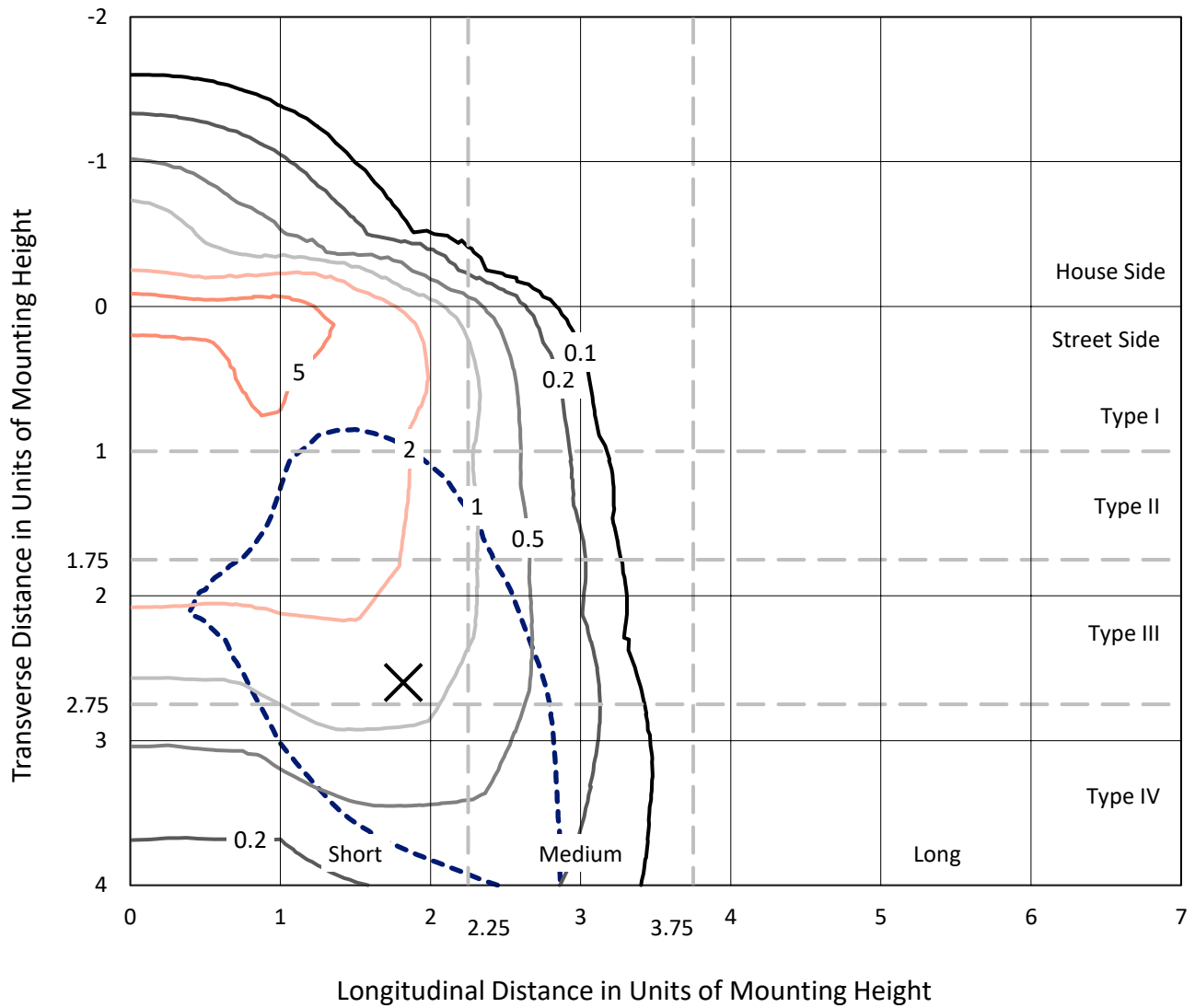
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: NVN-SB6C-830-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

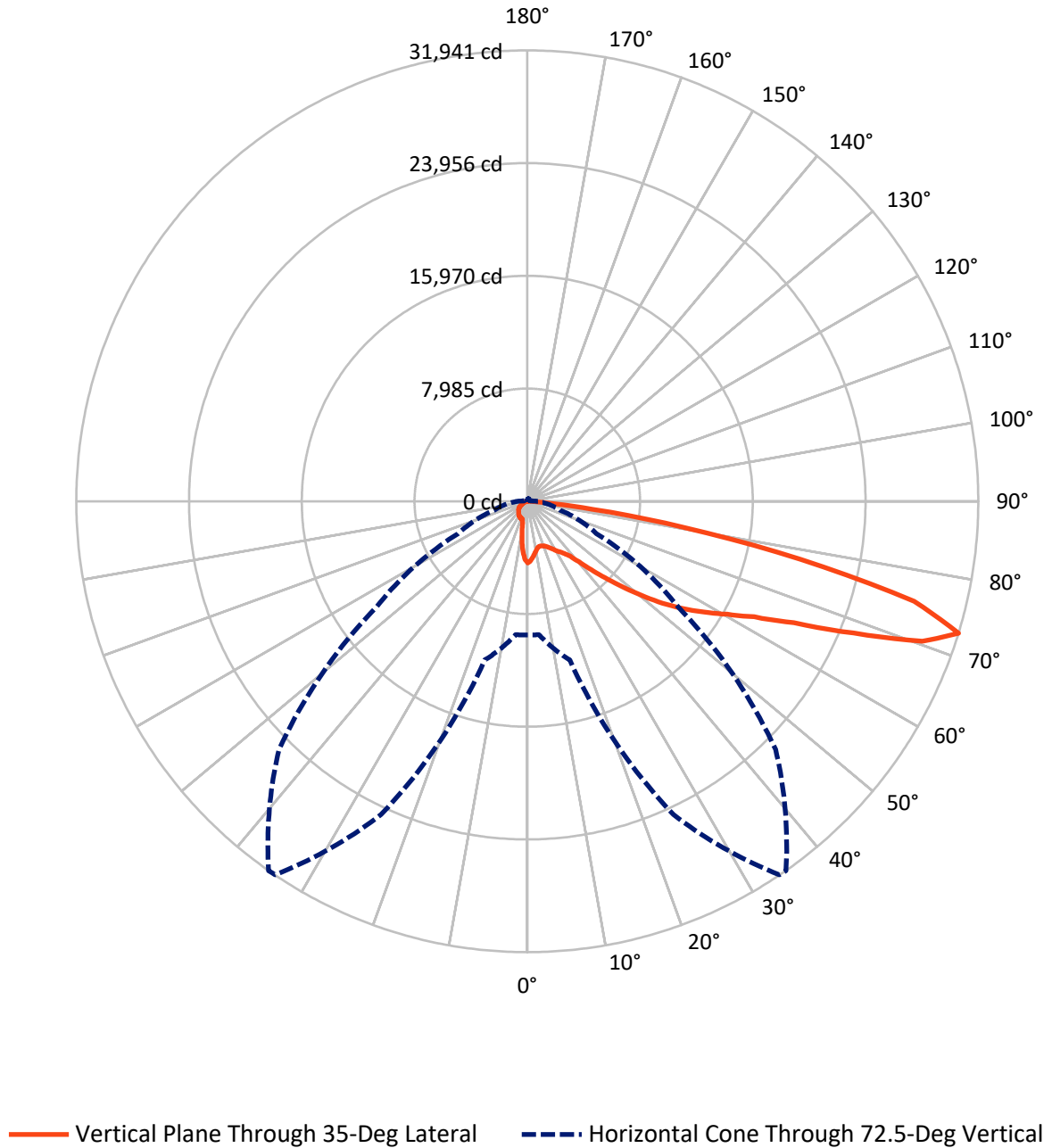
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Short - N/A

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CATALOG NUMBER: NVN-SB6C-830-U-T4FT-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3389.3	0.0	3389.3
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	26725.7	0.0	26725.7
	% Fixture	88.7	0.0	88.7
Total	Lumens	30115.0	0.0	30115.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.7	1.2
10°-20°	839.0	2.8
20°-30°	1363.0	4.5
30°-40°	2274.2	7.6
40°-50°	4302.8	14.3
50°-60°	6837.1	22.7
60°-70°	8457.9	28.1
70°-80°	5257.5	17.5
80°-90°	424.9	1.4
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°	30115.0	100.0
0°-180°	30115.0	100.0

Coefficient of Utilization



REPORT NUMBER: P885350

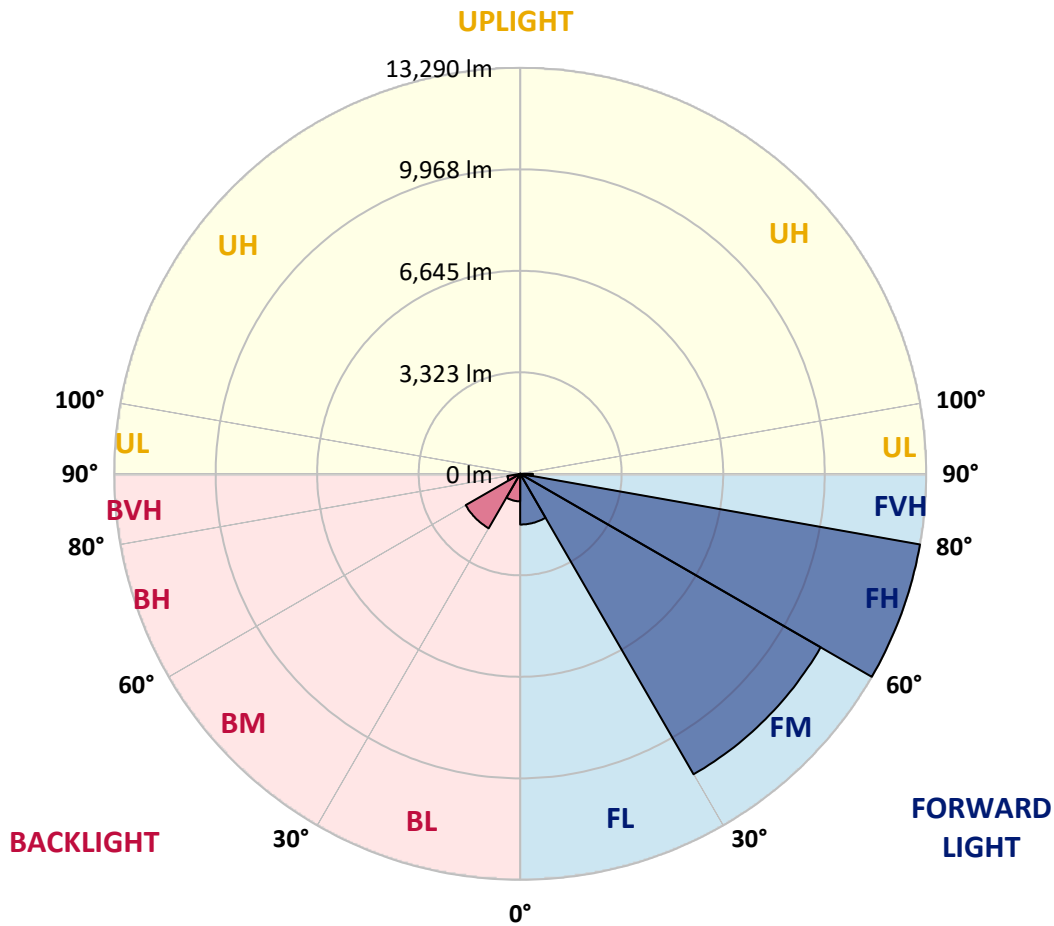
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1660.1	5.5			
FM (30°-60°)	11356.4	37.7			
FH (60°-80°)	13290.1	44.1			G5
FVH (80°-90°)	419.1	1.4			G3/500
BL (0°-30°)	900.6	3.0	B2/1000		
BM (30°-60°)	2057.6	6.8	B2/2500		
BH (60°-80°)	425.3	1.4	B1/500		G1/500
BVH (80°-90°)	5.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



REPORT NUMBER: P885350

CATALOG NUMBER: NVN-SB6C-830-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4364.7	4364.7	4364.7	4364.7	4364.7	4364.7	4364.7	4364.7	4364.7	4364.7	4364.7
2.5°	4170.5	4205.8	4212.4	4223.5	4223.5	4236.7	4258.8	4289.6	4340.4	4366.9	4384.5
5°	3843.9	3870.4	3903.5	3930.0	3980.7	3987.3	4073.4	4157.3	4274.2	4362.5	4424.3
7.5°	3515.1	3546.0	3590.2	3654.1	3720.3	3740.2	3870.4	4011.6	4197.0	4362.5	4466.2
10°	3283.4	3285.6	3325.4	3389.4	3495.3	3519.5	3678.4	3879.2	4110.9	4336.0	4505.9
12.5°	3153.2	3168.7	3186.3	3234.9	3336.4	3351.8	3521.7	3757.9	4024.9	4320.5	4552.2
15°	3153.2	3164.3	3175.3	3199.6	3281.2	3294.5	3444.5	3680.6	3980.7	4327.2	4627.3
17.5°	3186.3	3204.0	3195.2	3223.9	3309.9	3318.7	3451.1	3658.6	3978.5	4369.1	4742.0
20°	3265.8	3279.0	3261.4	3279.0	3365.1	3382.7	3519.5	3700.5	4016.0	4441.9	4885.4
22.5°	3391.6	3398.2	3356.3	3369.5	3457.8	3479.8	3638.7	3819.6	4106.5	4558.9	5077.4
25°	3550.4	3563.7	3499.7	3515.1	3599.0	3625.5	3808.6	3998.4	4249.9	4719.9	5322.3
27.5°	3733.6	3740.2	3685.0	3682.8	3791.0	3828.5	4013.8	4219.0	4441.9	4922.9	5631.3
30°	3943.2	3963.1	3910.1	3901.3	4038.1	4069.0	4252.1	4490.4	4724.4	5227.5	6070.4
32.5°	4108.7	4124.2	4093.3	4115.3	4254.3	4278.6	4541.2	4874.4	5167.9	5660.0	6668.4
35°	4347.0	4355.8	4285.2	4325.0	4483.8	4545.6	4936.2	5412.8	5726.2	6202.8	7449.5
37.5°	5209.8	5209.8	4909.7	4713.3	4865.6	4920.7	5476.8	6090.2	6414.6	6931.0	8433.7
40°	6403.6	6383.7	5944.6	5543.0	5523.1	5631.3	6246.9	6944.2	7303.9	7804.8	9541.4
42.5°	7676.8	7645.9	7047.9	6650.7	6584.5	6622.0	7136.2	7996.8	8363.0	8870.6	10732.9
45°	8806.6	8797.8	8250.5	7716.5	7597.4	7716.5	8246.1	9228.0	9490.6	10024.6	11922.3
47.5°	9753.2	9753.2	9353.8	9005.2	8943.4	9014.0	9748.8	10593.9	10569.7	11253.7	13080.8
50°	10843.3	10834.5	10454.9	10304.9	10368.9	10468.2	11478.8	12032.6	11686.2	12460.7	14115.7
52.5°	11606.8	11659.7	11529.5	11505.3	11831.8	12004.0	13235.2	13440.5	12685.8	13606.0	14890.2
55°	12211.4	12273.2	12423.2	12593.1	13222.0	13447.1	14936.5	14775.5	13522.1	14598.9	15335.9
57.5°	13067.5	12979.3	13211.0	13546.4	14563.6	14835.0	16584.9	16035.4	14195.1	15404.3	15384.5
60°	14106.9	14120.1	14159.8	14583.5	15903.0	16251.7	18208.9	17227.0	14627.6	15898.6	14846.1
62.5°	15355.8	15375.7	15457.3	16108.2	17701.4	18030.2	19938.9	18202.3	14826.2	15759.6	13455.9
65°	15269.7	15353.6	16264.9	18491.4	20435.4	20759.8	21958.0	18886.4	14526.1	14488.6	10955.8
67.5°	13910.5	14047.3	15572.0	21337.9	24557.4	24919.2	24398.5	19021.0	13230.8	11266.9	7147.2
70°	12127.5	12176.1	14009.8	23897.6	29330.3	29696.5	26583.0	17540.3	10040.1	6284.4	3201.8
72.5°	9470.8	9481.8	11633.2	24491.2	31920.8	31940.7	24868.5	13021.2	5399.6	2414.0	1112.1
75°	6765.5	6699.3	7791.5	19861.7	28083.5	28308.6	18643.6	6107.9	2063.2	1140.8	553.9
77.5°	3627.7	3700.5	4408.8	11778.9	19400.5	19784.5	10172.5	1760.9	1050.3	776.7	366.3
80°	1121.0	1182.7	1807.2	5393.0	10988.9	11220.6	3771.1	783.3	732.6	553.9	240.5
82.5°	353.1	366.3	842.9	2266.2	4561.1	4667.0	1092.3	443.5	500.9	366.3	141.2
85°	101.5	103.7	375.1	845.1	1127.6	1149.6	306.7	172.1	286.9	227.3	72.8
87.5°	11.0	35.3	141.2	141.2	99.3	97.1	33.1	37.5	81.6	28.7	13.2
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: P885350

CATALOG NUMBER: NVN-SB6C-830-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4364.7	4364.7	4364.7	4364.7	4364.7	4364.7	4364.7	4364.7	4364.7	4364.7	4364.7
2.5°	4373.5	4375.7	4347.0	4298.5	4245.5	4201.4	4146.2	4102.1	4071.2	4062.4	4077.8
5°	4404.4	4388.9	4307.3	4159.5	3982.9	3830.7	3660.8	3526.2	3437.9	3400.4	3413.6
7.5°	4450.7	4406.6	4227.9	3936.6	3599.0	3298.9	2994.4	2758.3	2608.2	2533.2	2544.2
10°	4490.4	4402.2	4095.5	3614.4	3098.1	2643.5	2233.1	1948.4	1789.6	1714.5	1716.7
12.5°	4528.0	4400.0	3923.4	3232.7	2533.2	1977.1	1595.4	1454.2	1410.0	1394.6	1390.2
15°	4598.6	4406.6	3707.1	2795.8	1970.5	1493.9	1354.9	1352.7	1361.5	1357.1	1354.9
17.5°	4695.7	4413.2	3462.2	2332.4	1520.4	1317.3	1310.7	1330.6	1343.8	1337.2	1335.0
20°	4821.4	4439.7	3201.8	1873.4	1306.3	1273.2	1288.7	1306.3	1317.3	1306.3	1304.1
22.5°	4998.0	4486.0	2917.1	1504.9	1237.9	1246.7	1260.0	1279.8	1290.9	1275.4	1273.2
25°	5214.2	4558.9	2636.9	1308.5	1204.8	1215.8	1235.7	1257.8	1271.0	1255.6	1253.4
27.5°	5494.5	4675.8	2378.7	1264.4	1171.7	1178.3	1207.0	1240.1	1257.8	1237.9	1237.9
30°	5900.5	4867.8	2155.9	1284.2	1151.9	1136.4	1176.1	1222.5	1242.3	1224.7	1222.5
32.5°	6438.9	5139.2	2019.0	1315.1	1143.0	1087.9	1125.4	1184.9	1218.0	1207.0	1207.0
35°	7145.0	5551.8	1966.1	1350.4	1136.4	1037.1	1063.6	1127.6	1184.9	1196.0	1196.0
37.5°	8001.2	6125.5	1981.5	1365.9	1116.5	995.2	1008.4	1063.6	1138.6	1173.9	1182.7
40°	8974.3	6794.2	2069.8	1350.4	1094.5	959.9	962.1	1004.0	1070.2	1123.2	1140.8
42.5°	9978.3	7575.3	2233.1	1293.1	1074.6	929.0	922.4	951.0	995.2	1032.7	1048.1
45°	10933.7	8378.5	2394.2	1213.6	1050.3	898.1	882.6	893.7	902.5	917.9	926.8
47.5°	11767.8	8943.4	2347.8	1140.8	1017.2	862.8	836.3	831.9	805.4	803.2	801.0
50°	12343.8	9067.0	2085.2	1068.0	968.7	823.1	781.1	754.7	708.3	686.3	688.5
52.5°	12526.9	8579.3	1703.5	995.2	889.3	770.1	710.5	668.6	611.2	591.4	589.2
55°	12284.2	7623.8	1361.5	906.9	778.9	699.5	633.3	578.1	531.8	507.5	507.5
57.5°	11690.6	6408.0	1076.8	803.2	662.0	620.1	553.9	498.7	459.0	434.7	430.3
60°	10706.5	5088.4	851.8	679.6	564.9	534.0	465.6	430.3	395.0	366.3	359.7
62.5°	9212.6	3632.1	668.6	538.4	472.2	436.9	397.2	370.7	328.8	289.1	282.4
65°	7189.1	2222.1	516.3	395.0	379.5	361.9	337.6	313.3	262.6	222.9	216.2
67.5°	4534.6	1052.6	368.5	297.9	300.1	291.3	280.2	260.4	222.9	187.6	183.1
70°	1997.0	509.7	242.7	227.3	222.9	222.9	231.7	225.1	189.8	156.7	150.0
72.5°	679.6	273.6	180.9	172.1	161.1	158.9	194.2	187.6	152.3	121.4	114.7
75°	355.3	183.1	132.4	123.6	97.1	117.0	154.5	145.6	108.1	79.4	72.8
77.5°	231.7	130.2	90.5	79.4	55.2	77.2	114.7	101.5	64.0	39.7	35.3
80°	145.6	86.1	53.0	37.5	26.5	41.9	61.8	44.1	24.3	8.8	6.6
82.5°	77.2	44.1	19.9	13.2	11.0	13.2	15.4	11.0	4.4	0.0	0.0
85°	30.9	15.4	6.6	4.4	2.2	0.0	4.4	2.2	0.0	0.0	0.0
87.5°	11.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)