

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: P883480

Luminaire Tested: **NVN-SB3D-830-U-T4FT-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883480
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-SB3D-830-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 900mA 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: 20221 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

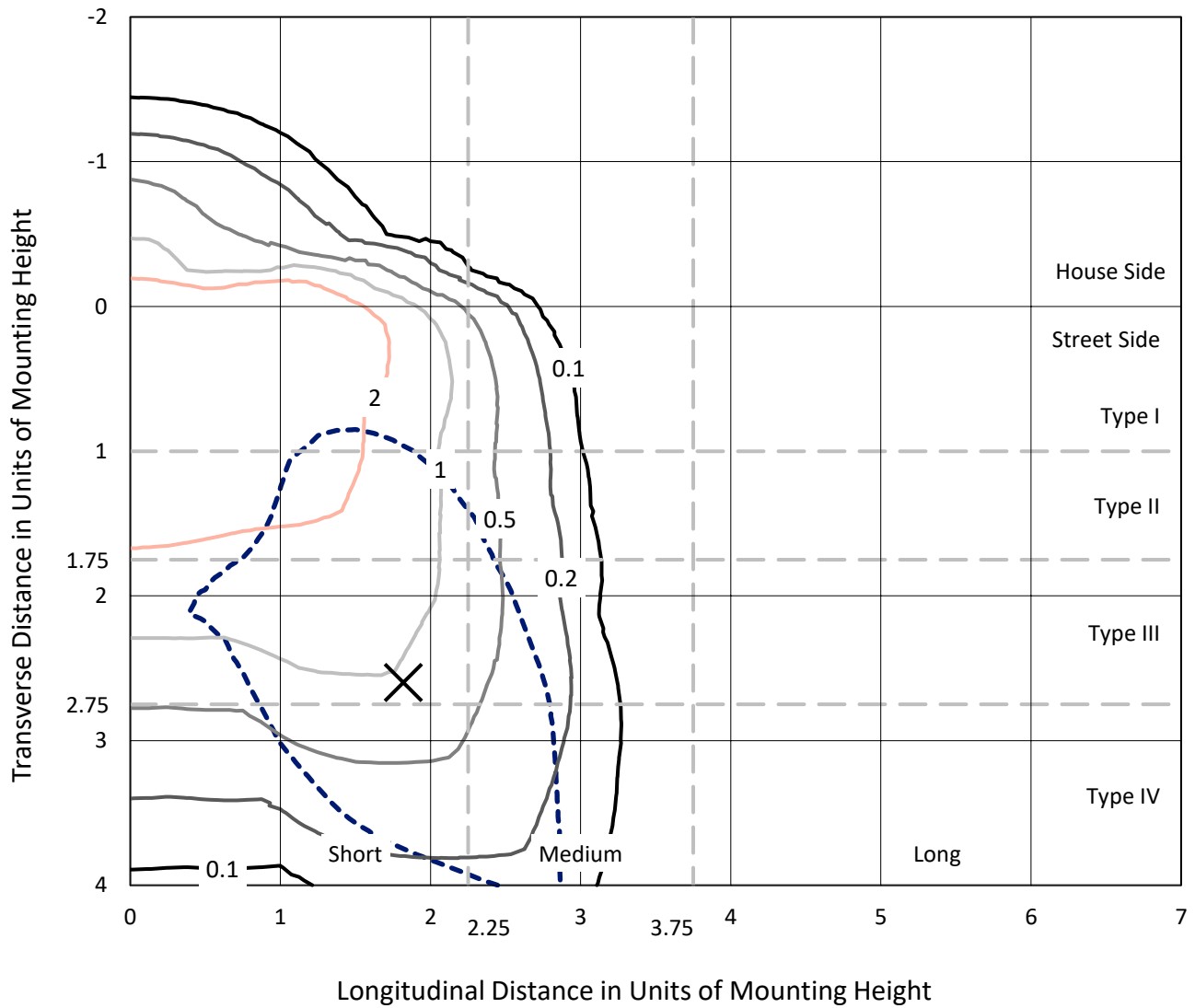
Input Watts (W): 218.1
Input Voltage (V): 120.0
Input Current (Ain): 1.84
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P883480
 CATALOG NUMBER: NVN-SB3D-830-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

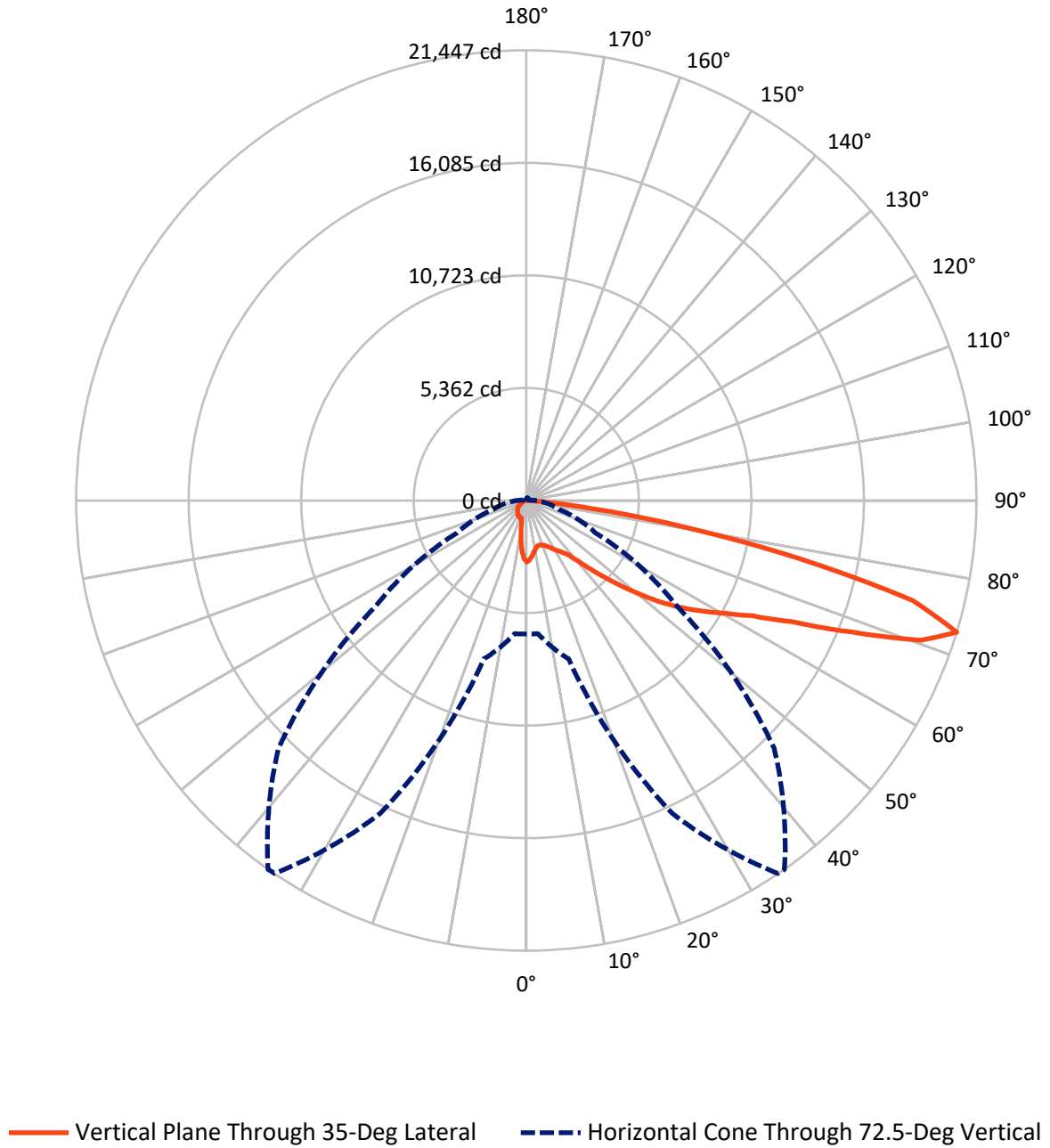
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P883480
CATALOG NUMBER: NVN-SB3D-830-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P883480
 CATALOG NUMBER: NVN-SB3D-830-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2275.8	0.0	2275.8
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	17945.2	0.0	17945.2
	% Fixture	88.7	0.0	88.7
Total	Lumens	20221.0	0.0	20221.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.8	1.2
10°-20°	563.4	2.8
20°-30°	915.2	4.5
30°-40°	1527.0	7.6
40°-50°	2889.1	14.3
50°-60°	4590.8	22.7
60°-70°	5679.1	28.1
70°-80°	3530.2	17.5
80°-90°	285.3	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°	20221.0	100.0
0°-180°	20221.0	100.0

Coefficient of Utilization



REPORT NUMBER: P883480

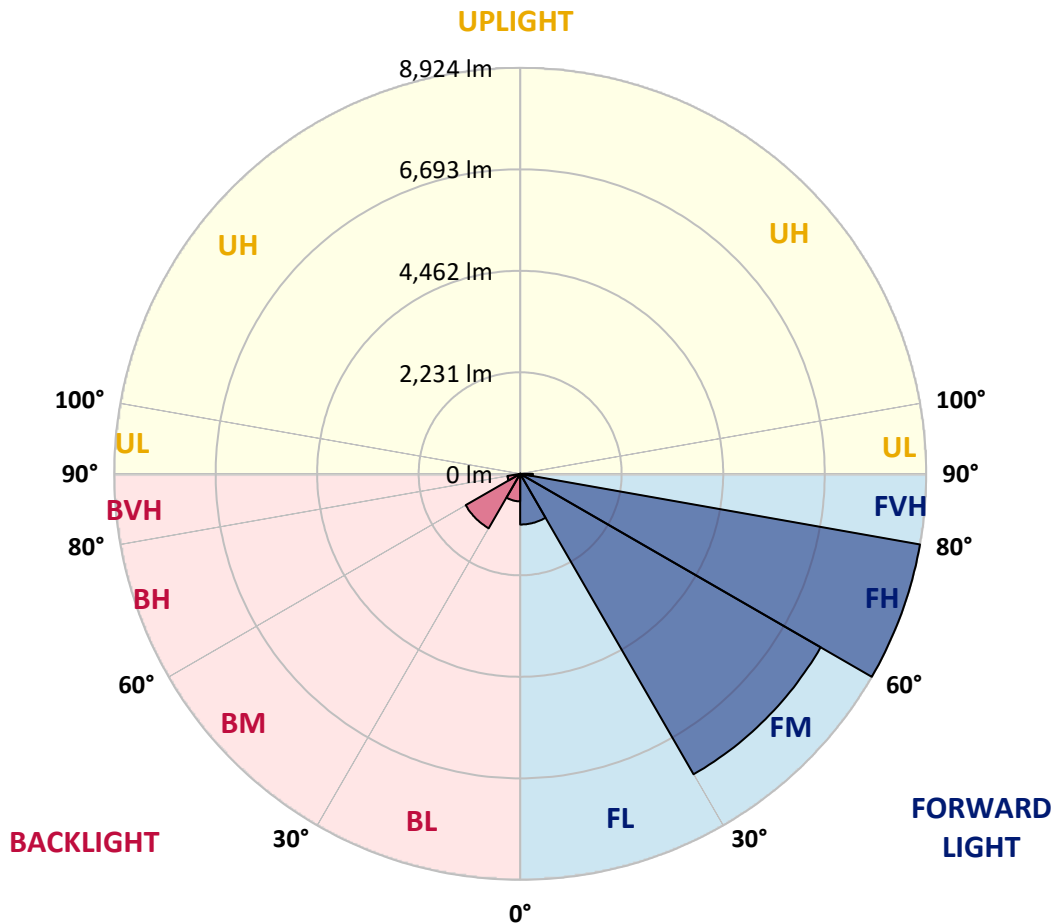
CATALOG NUMBER: NVN-SB3D-830-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1114.7	5.5			
FM (30°-60°)	7625.3	37.7			
FH (60°-80°)	8923.8	44.1			G4/12000
FVH (80°-90°)	281.4	1.4			G3/500
BL (0°-30°)	604.7	3.0	B2/1000		
BM (30°-60°)	1381.6	6.8	B2/2500		
BH (60°-80°)	285.6	1.4	B1/500		G1/500
BVH (80°-90°)	3.9	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-G4

Type IV Short



REPORT NUMBER: P883480

CATALOG NUMBER: NVN-SB3D-830-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2930.7	2930.7	2930.7	2930.7	2930.7	2930.7	2930.7	2930.7	2930.7	2930.7	2930.7
2.5°	2800.3	2824.0	2828.5	2835.9	2835.9	2844.8	2859.6	2880.3	2914.4	2932.2	2944.0
5°	2581.0	2598.8	2621.0	2638.8	2672.9	2677.3	2735.1	2791.4	2870.0	2929.2	2970.7
7.5°	2360.3	2381.0	2410.6	2453.6	2498.1	2511.4	2598.8	2693.6	2818.1	2929.2	2998.9
10°	2204.7	2206.2	2232.8	2275.8	2346.9	2363.2	2469.9	2604.7	2760.3	2911.4	3025.5
12.5°	2117.3	2127.6	2139.5	2172.1	2240.3	2250.6	2364.7	2523.2	2702.5	2901.1	3056.6
15°	2117.3	2124.7	2132.1	2148.4	2203.2	2212.1	2312.9	2471.4	2672.9	2905.5	3107.0
17.5°	2139.5	2151.4	2145.4	2164.7	2222.5	2228.4	2317.3	2456.6	2671.4	2933.7	3184.1
20°	2192.8	2201.7	2189.9	2201.7	2259.5	2271.4	2363.2	2484.7	2696.6	2982.6	3280.4
22.5°	2277.3	2281.7	2253.6	2262.5	2321.7	2336.6	2443.2	2564.7	2757.3	3061.1	3409.3
25°	2384.0	2392.9	2349.9	2360.3	2416.6	2434.3	2557.3	2684.7	2853.7	3169.2	3573.7
27.5°	2506.9	2511.4	2474.4	2472.9	2545.5	2570.7	2695.1	2832.9	2982.6	3305.6	3781.2
30°	2647.7	2661.0	2625.5	2619.6	2711.4	2732.2	2855.1	3015.2	3172.2	3510.0	4076.0
32.5°	2758.8	2769.2	2748.5	2763.3	2856.6	2872.9	3049.2	3273.0	3470.0	3800.4	4477.5
35°	2918.8	2924.8	2877.4	2904.0	3010.7	3052.2	3314.4	3634.5	3844.9	4164.9	5002.0
37.5°	3498.2	3498.2	3296.7	3164.8	3267.0	3304.1	3677.5	4089.4	4307.2	4653.9	5662.9
40°	4299.7	4286.4	3991.6	3721.9	3708.6	3781.2	4194.5	4662.7	4904.3	5240.6	6406.6
42.5°	5154.7	5133.9	4732.4	4465.7	4421.2	4446.4	4791.7	5369.5	5615.4	5956.2	7206.7
45°	5913.3	5907.3	5539.9	5181.3	5101.3	5181.3	5536.9	6196.3	6372.6	6731.1	8005.3
47.5°	6548.9	6548.9	6280.7	6046.6	6005.1	6052.5	6545.9	7113.4	7097.1	7556.4	8783.2
50°	7280.8	7274.9	7020.1	6919.3	6962.3	7028.9	7707.5	8079.4	7846.8	8366.9	9478.1
52.5°	7793.5	7829.0	7741.6	7725.3	7944.6	8060.2	8886.9	9024.7	8518.0	9135.8	9998.2
55°	8199.4	8240.9	8341.7	8455.8	8878.0	9029.2	10029.3	9921.1	9079.5	9802.6	10297.5
57.5°	8774.3	8715.1	8870.6	9095.8	9778.9	9961.1	11136.1	10767.1	9531.4	10343.4	10330.1
60°	9472.2	9481.1	9507.7	9792.2	10678.2	10912.3	12226.6	11567.2	9821.8	10675.3	9968.5
62.5°	10310.8	10324.1	10378.9	10816.0	11885.8	12106.6	13388.2	12222.1	9955.2	10581.9	9035.1
65°	10253.0	10309.3	10921.2	12416.2	13721.5	13939.3	14743.9	12681.4	9753.7	9728.5	7356.4
67.5°	9340.3	9432.2	10456.0	14327.5	16489.3	16732.3	16382.6	12771.8	8884.0	7565.3	4799.1
70°	8143.1	8175.7	9407.0	16046.3	19694.1	19940.0	17849.4	11777.6	6741.5	4219.7	2149.9
72.5°	6359.2	6366.6	7811.3	16444.8	21433.5	21446.9	16698.2	8743.2	3625.6	1620.9	746.8
75°	4542.7	4498.3	5231.7	13336.3	18856.9	19008.1	12518.4	4101.2	1385.3	766.0	371.9
77.5°	2435.8	2484.7	2960.3	7909.0	13026.7	13284.5	6830.4	1182.4	705.3	521.5	246.0
80°	752.7	794.2	1213.5	3621.1	7378.6	7534.2	2532.1	526.0	491.9	371.9	161.5
82.5°	237.1	246.0	566.0	1521.7	3062.6	3133.7	733.4	297.8	336.3	246.0	94.8
85°	68.2	69.6	251.9	567.5	757.1	771.9	205.9	115.6	192.6	152.6	48.9
87.5°	7.4	23.7	94.8	94.8	66.7	65.2	22.2	25.2	54.8	19.3	8.9
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: P883480

CATALOG NUMBER: NVN-SB3D-830-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2930.7	2930.7	2930.7	2930.7	2930.7	2930.7	2930.7	2930.7	2930.7	2930.7	2930.7
2.5°	2936.6	2938.1	2918.8	2886.3	2850.7	2821.1	2784.0	2754.4	2733.6	2727.7	2738.1
5°	2957.4	2947.0	2892.2	2792.9	2674.4	2572.1	2458.1	2367.7	2308.4	2283.2	2292.1
7.5°	2988.5	2958.9	2838.8	2643.3	2416.6	2215.1	2010.6	1852.1	1751.3	1700.9	1708.3
10°	3015.2	2955.9	2749.9	2426.9	2080.2	1775.0	1499.4	1308.3	1201.6	1151.2	1152.7
12.5°	3040.3	2954.4	2634.4	2170.6	1700.9	1327.6	1071.2	976.4	946.8	936.4	933.4
15°	3087.8	2958.9	2489.2	1877.2	1323.1	1003.1	909.7	908.3	914.2	911.2	909.7
17.5°	3152.9	2963.3	2324.7	1566.1	1020.9	884.5	880.1	893.4	902.3	897.9	896.4
20°	3237.4	2981.1	2149.9	1257.9	877.1	854.9	865.3	877.1	884.5	877.1	875.7
22.5°	3355.9	3012.2	1958.7	1010.5	831.2	837.1	846.0	859.4	866.8	856.4	854.9
25°	3501.1	3061.1	1770.6	878.6	809.0	816.4	829.7	844.5	853.4	843.1	841.6
27.5°	3689.3	3139.6	1597.2	849.0	786.8	791.2	810.5	832.7	844.5	831.2	831.2
30°	3961.9	3268.5	1447.6	862.3	773.4	763.0	789.7	820.8	834.2	822.3	820.8
32.5°	4323.5	3450.8	1355.7	883.1	767.5	730.5	755.6	795.6	817.9	810.5	810.5
35°	4797.6	3727.8	1320.1	906.8	763.0	696.4	714.2	757.1	795.6	803.1	803.1
37.5°	5372.5	4113.1	1330.5	917.1	749.7	668.2	677.1	714.2	764.5	788.2	794.2
40°	6025.9	4562.0	1389.8	906.8	734.9	644.5	646.0	674.2	718.6	754.2	766.0
42.5°	6700.0	5086.5	1499.4	868.2	721.6	623.8	619.3	638.6	668.2	693.4	703.8
45°	7341.6	5625.8	1607.6	814.9	705.3	603.0	592.7	600.1	606.0	616.4	622.3
47.5°	7901.6	6005.1	1576.5	766.0	683.0	579.3	561.5	558.6	540.8	539.3	537.8
50°	8288.3	6088.1	1400.2	717.1	650.4	552.7	524.5	506.7	475.6	460.8	462.3
52.5°	8411.3	5760.6	1143.8	668.2	597.1	517.1	477.1	448.9	410.4	397.1	395.6
55°	8248.3	5119.1	914.2	609.0	523.0	469.7	425.2	388.2	357.1	340.8	340.8
57.5°	7849.8	4302.7	723.0	539.3	444.5	416.3	371.9	334.9	308.2	291.9	288.9
60°	7189.0	3416.7	571.9	456.3	379.3	358.6	312.6	288.9	265.2	246.0	241.5
62.5°	6185.9	2438.8	448.9	361.5	317.1	293.4	266.7	248.9	220.8	194.1	189.7
65°	4827.2	1492.0	346.7	265.2	254.8	243.0	226.7	210.4	176.3	149.6	145.2
67.5°	3044.8	706.7	247.4	200.0	201.5	195.6	188.2	174.8	149.6	125.9	123.0
70°	1340.9	342.3	163.0	152.6	149.6	149.6	155.6	151.1	127.4	105.2	100.8
72.5°	456.3	183.7	121.5	115.6	108.2	106.7	130.4	125.9	102.2	81.5	77.0
75°	238.5	123.0	88.9	83.0	65.2	78.5	103.7	97.8	72.6	53.3	48.9
77.5°	155.6	87.4	60.7	53.3	37.0	51.9	77.0	68.2	43.0	26.7	23.7
80°	97.8	57.8	35.6	25.2	17.8	28.2	41.5	29.6	16.3	5.9	4.4
82.5°	51.9	29.6	13.3	8.9	7.4	8.9	10.4	7.4	3.0	0.0	0.0
85°	20.7	10.4	4.4	3.0	1.5	0.0	3.0	1.5	0.0	0.0	0.0
87.5°	7.4	1.5	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)