

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: P961566

Luminaire Tested: **NVN-SB2A-830-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961566
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB2A-830-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

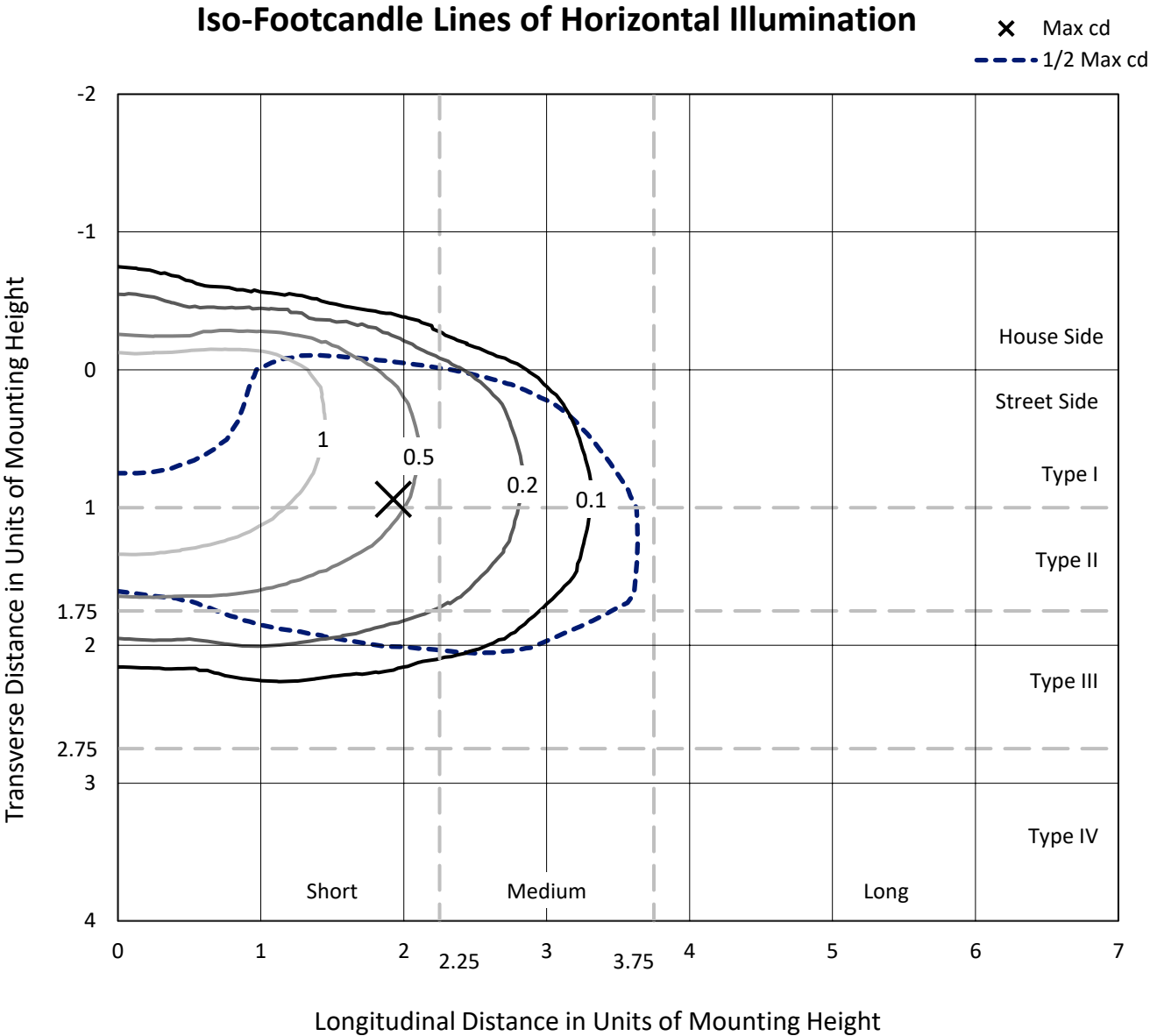
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6480 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 57.3
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: 24 FT



REPORT NUMBER: P961566
CATALOG NUMBER: NVN-SB2A-830-U-T3-HSS

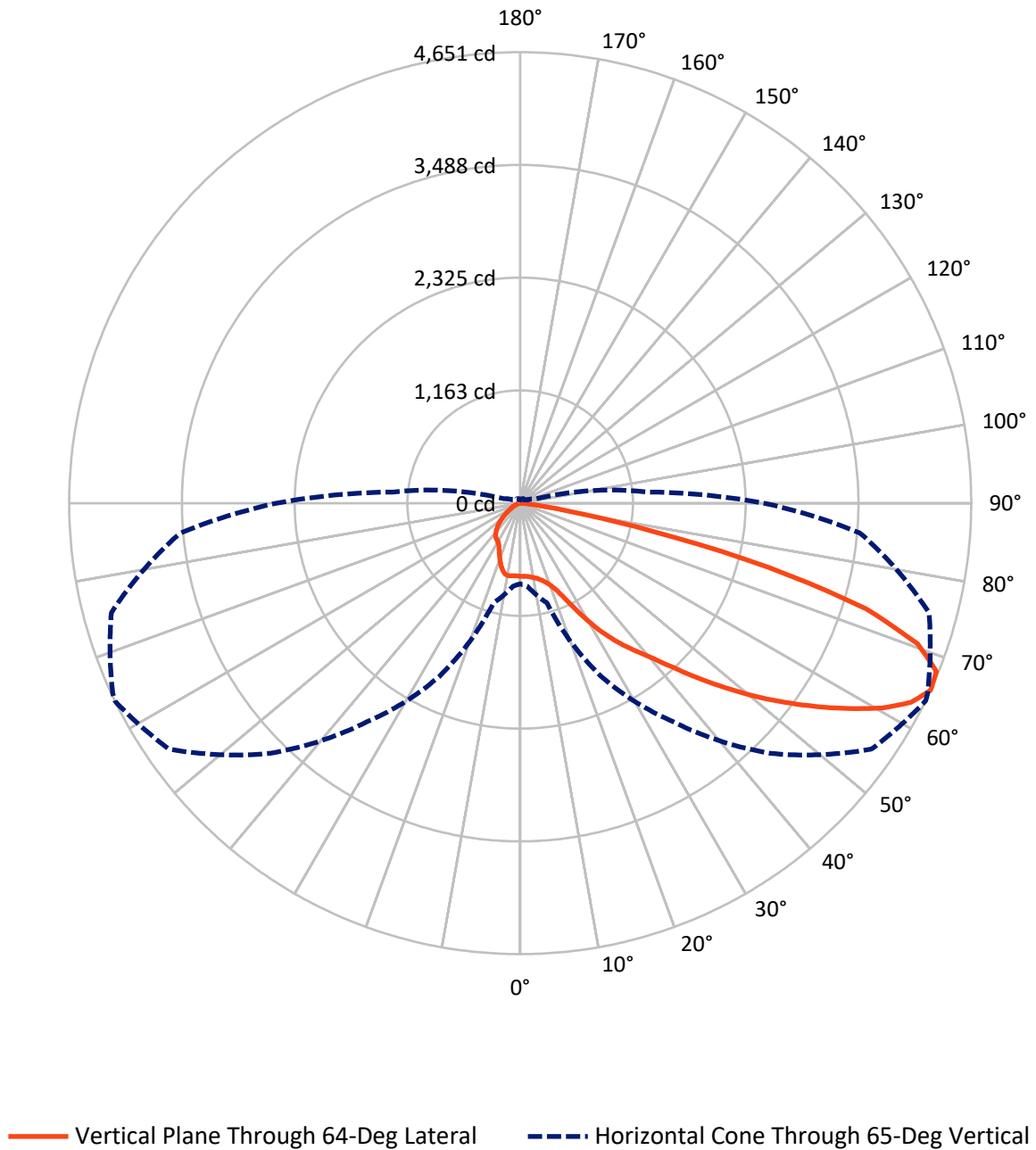


Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
Type III - Short - N/A

REPORT NUMBER: P961566

CATALOG NUMBER: NVN-SB2A-830-U-T3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P961566

CATALOG NUMBER: NVN-SB2A-830-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	866.6	0.0	866.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	5613.5	0.0	5613.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	6480.0	0.0	6480.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.5	1.1
10°-20°	188.6	2.9
20°-30°	357.4	5.5
30°-40°	723.2	11.2
40°-50°	1231.9	19.0
50°-60°	1675.3	25.9
60°-70°	1573.2	24.3
70°-80°	630.3	9.7
80°-90°	30.5	0.5
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°	6480.0	100.0
0°-180°	6480.0	100.0

Coefficient of Utilization



REPORT NUMBER: P961566

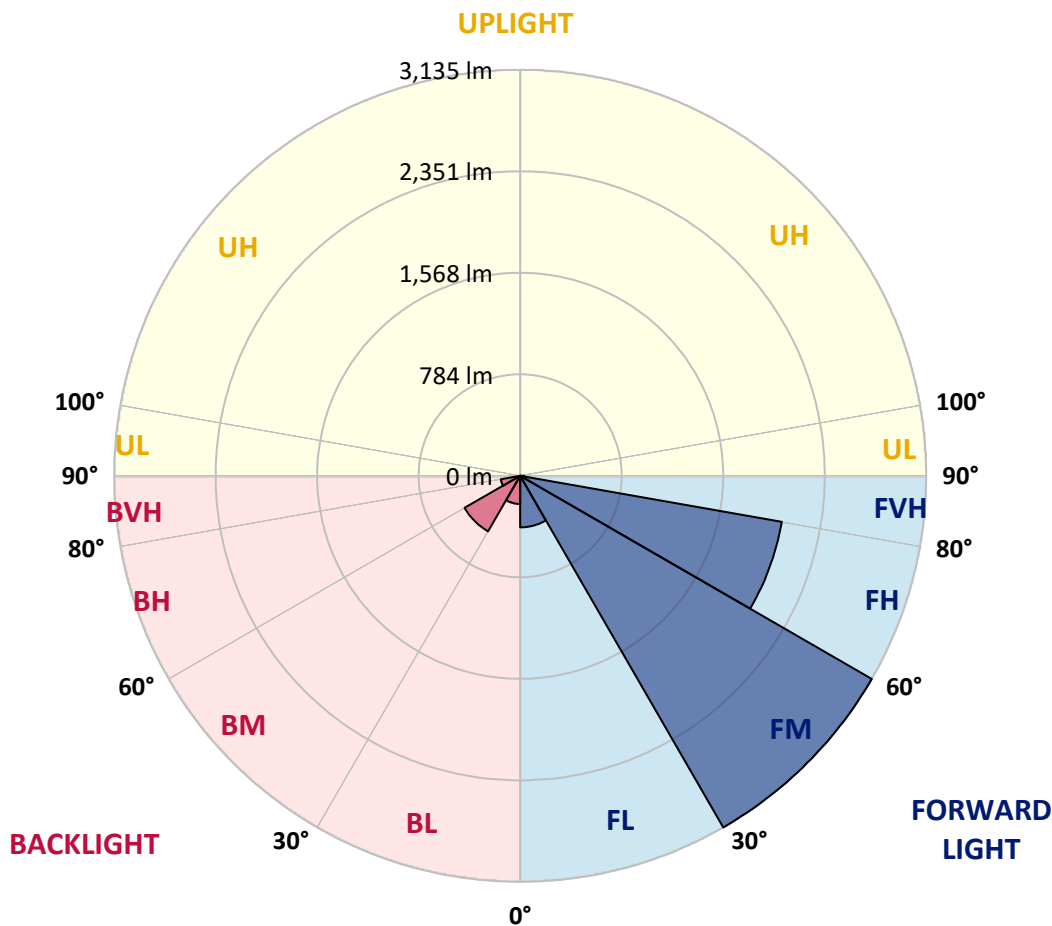
CATALOG NUMBER: NVN-SB2A-830-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	397.9	6.1			
FM	(30°-60°)	3135.0	48.4			
FH	(60°-80°)	2051.4	31.7			G2/5000
FVH	(80°-90°)	29.0	0.4			G1/100
BL	(0°-30°)	217.6	3.4	B1/500		
BM	(30°-60°)	495.4	7.6	B1/1000		
BH	(60°-80°)	152.1	2.3	B1/500		G1/500
BVH	(80°-90°)	1.5	0.0			G0/10
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 Short



REPORT NUMBER: P961566

CATALOG NUMBER: NVN-SB2A-830-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	753.7	753.7	753.7	753.7	753.7	753.7	753.7	753.7	753.7	753.7	753.7
2.5°	751.1	756.3	755.0	753.7	753.3	754.1	754.6	754.1	754.1	754.1	754.6
5°	736.8	741.1	741.1	744.2	748.5	753.7	757.6	759.3	759.3	760.7	760.2
7.5°	709.4	712.9	715.4	725.5	736.4	750.2	762.0	768.9	768.9	773.7	775.4
10°	690.7	695.1	699.4	709.8	725.5	746.3	766.3	783.2	783.2	794.6	799.7
12.5°	689.8	694.2	699.9	711.1	729.4	751.5	775.8	801.0	801.0	817.5	828.4
15°	698.9	704.2	709.4	723.2	742.8	769.8	795.8	826.3	826.3	849.7	861.4
17.5°	717.6	724.6	728.5	742.4	763.2	793.2	827.6	861.4	861.4	888.8	903.5
20°	754.6	762.8	764.1	775.4	795.8	828.0	868.8	910.9	910.9	942.2	958.8
22.5°	831.1	842.8	832.3	837.9	856.2	888.4	932.6	986.6	986.6	1022.1	1036.9
25°	965.7	982.2	955.3	945.7	953.6	987.0	1042.5	1109.9	1109.9	1138.6	1145.9
27.5°	1230.2	1209.0	1168.1	1128.1	1104.7	1123.8	1186.3	1269.8	1269.8	1297.5	1288.9
30°	1520.9	1502.1	1447.0	1358.4	1302.8	1299.7	1357.5	1450.9	1450.9	1477.4	1450.9
32.5°	1811.9	1794.1	1734.2	1625.1	1528.7	1480.9	1520.9	1618.6	1618.6	1635.6	1596.4
35°	2098.2	2079.9	2020.0	1908.3	1789.8	1681.2	1673.3	1779.3	1779.3	1797.1	1738.9
37.5°	2386.2	2371.0	2307.2	2197.7	2080.9	1930.9	1858.4	1935.3	1935.3	1952.6	1892.3
40°	2591.7	2598.2	2554.3	2469.6	2369.3	2205.5	2066.1	2085.6	2085.6	2114.7	2078.6
42.5°	2768.0	2781.0	2742.9	2700.3	2642.0	2497.8	2323.2	2296.7	2296.7	2312.4	2275.0
45°	2920.5	2931.4	2897.1	2887.1	2885.8	2784.5	2604.3	2541.3	2541.3	2538.2	2493.5
47.5°	2976.6	2997.4	3012.2	3045.6	3110.8	3068.2	2894.9	2809.7	2809.7	2785.8	2715.0
50°	2997.8	3020.0	3070.4	3167.7	3321.9	3340.2	3184.2	3085.1	3085.1	3041.7	2937.4
52.5°	2969.2	3008.7	3076.4	3240.2	3464.0	3558.2	3461.8	3364.5	3364.5	3293.6	3139.1
55°	2800.2	2839.8	2978.3	3239.4	3534.8	3711.1	3724.1	3649.9	3649.9	3538.3	3301.9
57.5°	2444.0	2502.6	2722.0	3129.0	3533.5	3842.7	3981.3	3940.5	3940.5	3780.6	3430.1
60°	1950.5	2030.0	2297.5	2884.5	3424.4	3914.0	4206.8	4228.5	4228.5	4019.5	3533.9
62.5°	1361.0	1453.1	1706.3	2501.3	3175.0	3862.7	4371.4	4477.9	4477.9	4233.4	3573.9
65°	830.1	859.7	1063.8	1968.3	2751.1	3648.2	4422.3	4650.7	4635.6	4364.0	3514.8
67.5°	553.0	577.8	636.4	1349.7	2135.6	3219.4	4300.6	4633.0	4633.0	4342.8	3298.4
70°	333.2	354.4	392.7	784.9	1384.1	2548.3	3924.0	4371.4	4371.4	4058.3	2888.3
72.5°	137.2	151.6	186.3	355.8	716.8	1617.3	3124.7	3790.2	3790.2	3412.2	2216.8
75°	77.8	85.2	109.5	178.6	311.0	753.7	1892.7	2735.4	2735.4	2351.9	1333.6
77.5°	51.7	55.1	70.8	115.5	175.1	257.2	808.8	1545.2	1545.2	1284.5	577.3
80°	34.7	37.8	48.7	77.3	113.8	110.3	257.6	629.0	629.0	441.4	140.7
82.5°	23.5	23.9	34.7	50.8	72.2	53.4	76.1	199.9	199.9	127.7	53.4
85°	13.4	13.0	25.6	29.5	32.2	22.1	23.1	62.5	62.5	53.9	30.4
87.5°	1.7	2.6	9.9	7.8	4.3	4.8	4.8	12.2	12.2	13.0	6.6
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: P961566

CATALOG NUMBER: NVN-SB2A-830-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	753.7	753.7	753.7	753.7	753.7	753.7	753.7	753.7	753.7	753.7	753.7
2.5°	754.6	754.1	752.9	751.5	748.5	746.7	747.6	746.7	746.3	746.7	748.5
5°	760.2	758.9	755.4	751.1	745.0	737.6	732.9	725.9	719.3	715.4	716.4
7.5°	775.4	774.1	769.4	757.2	737.6	706.7	678.6	653.7	635.1	624.2	624.6
10°	799.7	797.6	790.2	763.2	712.0	644.6	588.7	542.1	511.8	497.4	496.1
12.5°	828.4	825.8	812.8	757.6	663.4	558.2	480.9	429.2	401.0	388.4	387.0
15°	862.3	858.8	833.2	730.7	592.6	462.7	391.9	353.2	335.0	323.6	324.1
17.5°	904.5	898.3	848.4	690.2	515.7	389.7	337.1	308.0	291.9	281.1	280.2
20°	959.2	949.1	860.6	642.1	444.8	343.6	300.2	275.8	263.7	254.1	252.4
22.5°	1035.7	1021.3	875.4	589.9	394.8	311.9	272.9	255.0	245.0	234.1	232.4
25°	1130.4	1113.4	893.6	541.7	360.6	284.5	252.9	238.0	226.3	213.7	212.4
27.5°	1262.8	1232.5	915.3	502.1	331.0	261.1	234.6	218.1	204.6	194.1	192.0
30°	1410.5	1360.6	934.4	478.3	304.1	239.3	210.6	194.1	181.6	174.1	172.9
32.5°	1550.4	1482.7	947.0	467.8	279.7	214.6	184.6	166.8	157.2	155.1	156.4
35°	1682.4	1593.0	945.7	457.9	258.0	189.8	159.0	140.7	133.4	134.7	134.7
37.5°	1834.5	1710.7	936.5	442.2	240.3	167.3	136.8	120.7	114.3	114.7	116.4
40°	2011.4	1846.6	930.9	412.7	220.7	146.4	118.6	105.6	100.8	99.0	98.6
42.5°	2199.9	1978.2	931.8	379.2	196.4	127.7	106.0	95.1	90.8	89.5	89.1
45°	2389.3	2103.8	933.1	344.5	170.8	113.4	96.9	87.7	85.2	83.4	83.4
47.5°	2567.3	2210.7	908.8	307.1	145.5	102.5	89.5	83.4	81.3	79.0	79.0
50°	2733.3	2282.0	850.1	263.7	125.6	93.8	83.8	79.5	77.3	75.1	75.1
52.5°	2862.3	2293.2	753.3	218.9	111.6	87.3	80.4	76.5	73.8	71.6	71.2
55°	2919.6	2222.4	615.5	177.2	100.8	81.7	76.9	73.0	69.9	67.8	67.3
57.5°	2904.8	2073.5	480.0	142.5	90.4	76.1	72.6	69.9	66.4	63.0	62.5
60°	2832.4	1874.0	361.8	118.6	80.8	69.9	67.8	65.6	60.8	55.6	54.7
62.5°	2706.8	1623.4	258.0	98.2	70.4	63.0	62.1	60.4	53.4	43.9	43.0
65°	2514.7	1318.9	173.7	81.7	60.4	55.1	55.6	52.6	43.5	32.6	31.7
67.5°	2234.2	964.4	111.2	66.9	50.4	46.0	46.4	44.8	36.9	27.8	26.5
70°	1876.7	638.6	72.6	50.8	40.4	35.7	38.2	38.6	31.3	22.5	21.7
72.5°	1375.8	377.1	50.8	37.8	29.5	24.8	31.3	32.2	25.2	16.9	16.1
75°	784.1	179.0	38.2	27.4	18.2	17.4	24.3	24.3	17.4	11.3	10.5
77.5°	329.2	74.7	27.0	17.8	10.5	9.9	16.5	15.2	8.7	5.2	5.2
80°	95.1	33.4	14.3	8.7	4.3	3.9	6.6	4.8	2.2	0.8	0.8
82.5°	37.3	14.8	5.6	3.5	1.7	1.7	0.8	0.0	0.0	0.0	0.0
85°	22.1	6.0	2.6	1.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.6	1.3	0.8	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)