

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: P883978

Luminaire Tested: **NVN-SB4C-827-U-T3-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883978
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB4C-827-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19340 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

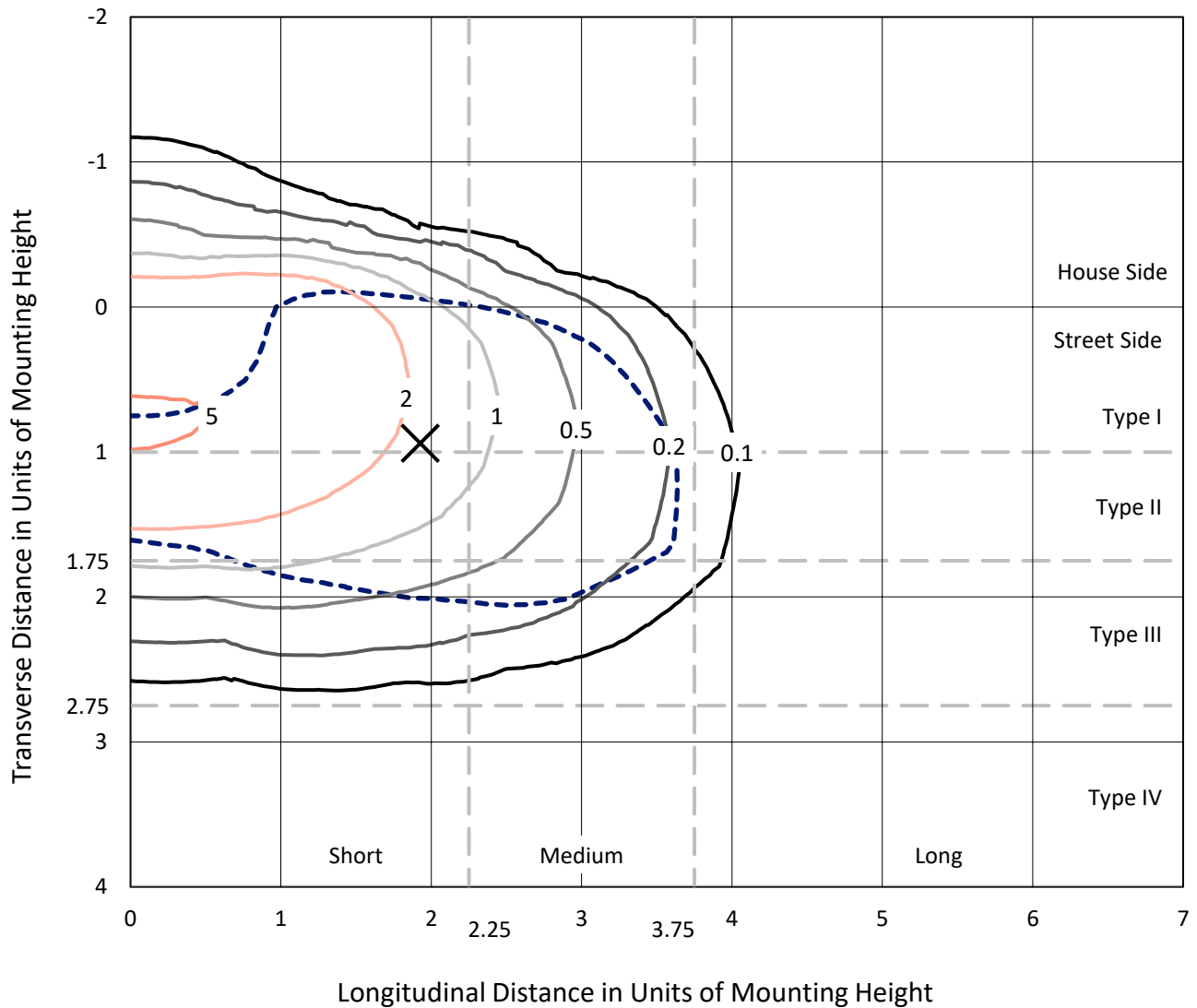
Input Watts (W): 200.7
Input Voltage (V): 120.0
Input Current (Ain): 1.714
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

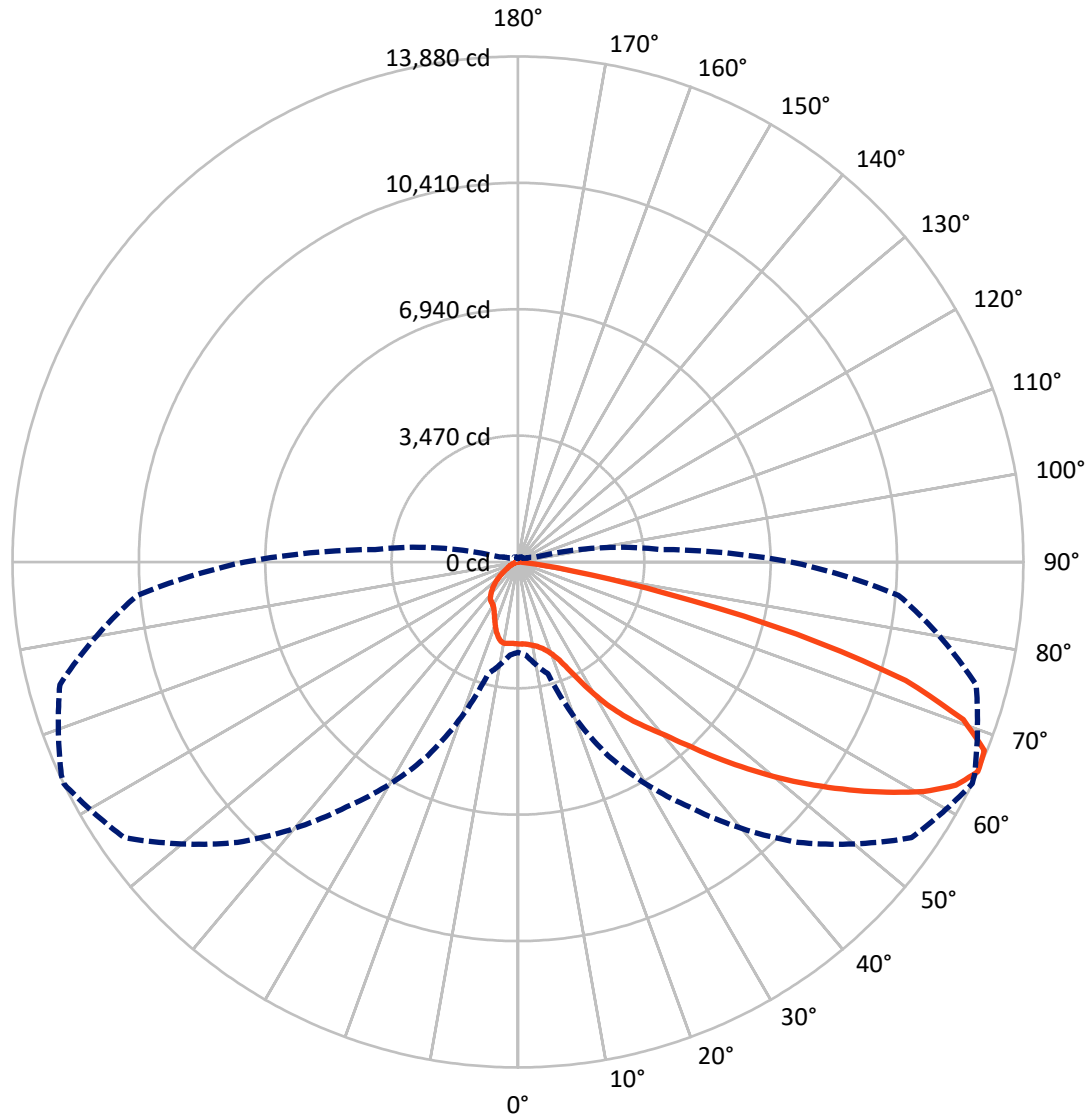
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2586.4	0.0	2586.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	16753.7	0.0	16753.7
	% Fixture	86.6	0.0	86.6
Total	Lumens	19340.0	0.0	19340.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.5	1.1
10°-20°	562.9	2.9
20°-30°	1066.6	5.5
30°-40°	2158.4	11.2
40°-50°	3676.8	19.0
50°-60°	5000.1	25.9
60°-70°	4695.4	24.3
70°-80°	1881.2	9.7
80°-90°	91.1	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°	19340.0	100.0
0°-180°	19340.0	100.0

Coefficient of Utilization



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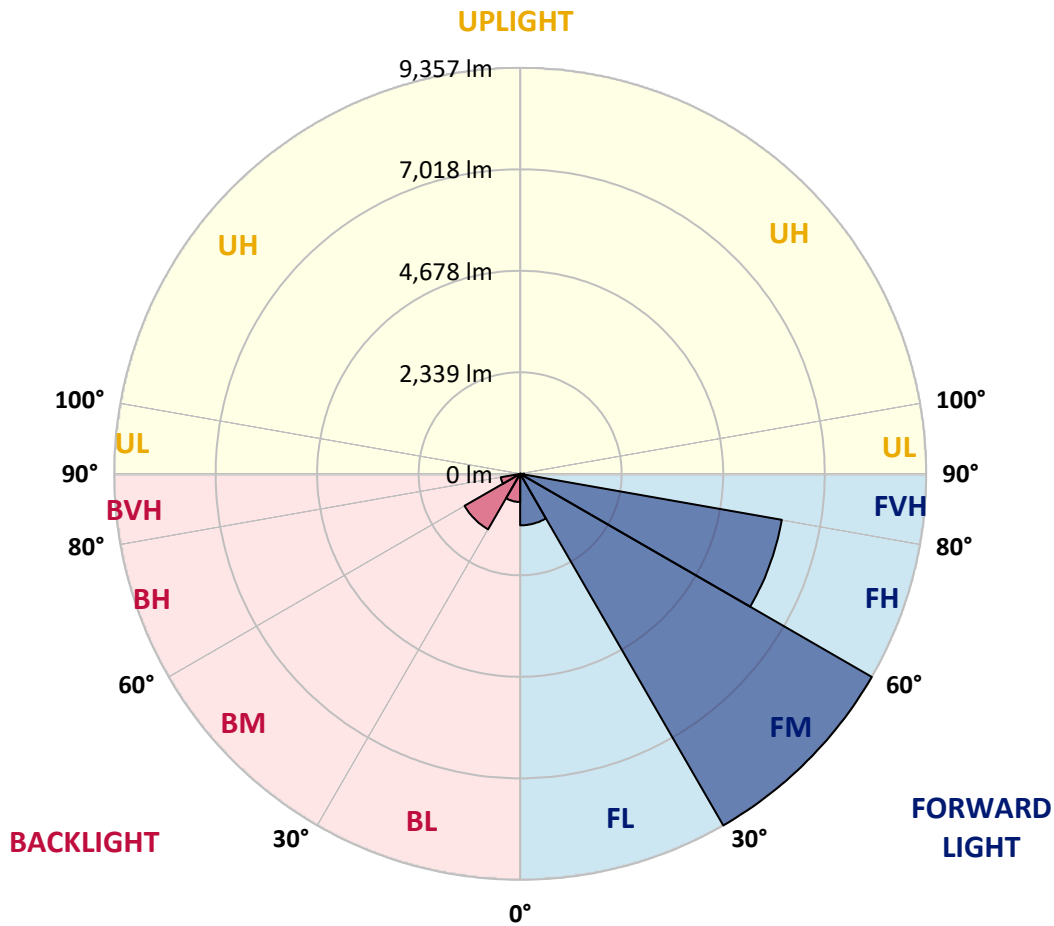
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1187.7	6.1			
FM (30°-60°)	9356.7	48.4			
FH (60°-80°)	6122.6	31.7			G3/7500
FVH (80°-90°)	86.7	0.4			G1/100
BL (0°-30°)	649.4	3.4	B2/1000		
BM (30°-60°)	1478.6	7.6	B2/2500		
BH (60°-80°)	453.9	2.3	B1/500		G1/500
BVH (80°-90°)	4.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2249.4	2249.4	2249.4	2249.4	2249.4	2249.4	2249.4	2249.4	2249.4	2249.4	2249.4
2.5°	2241.7	2257.2	2253.3	2249.4	2248.1	2250.7	2252.0	2250.7	2250.7	2250.7	2252.0
5°	2198.9	2211.8	2211.8	2220.9	2233.9	2249.4	2261.1	2263.7	2266.3	2270.2	2268.9
7.5°	2117.2	2127.6	2135.4	2165.2	2197.6	2239.1	2274.1	2292.2	2294.8	2309.1	2314.3
10°	2061.4	2074.4	2087.4	2118.5	2165.2	2227.4	2287.0	2331.1	2337.6	2371.3	2386.9
12.5°	2058.9	2071.8	2088.7	2122.4	2176.8	2243.0	2315.6	2379.1	2390.8	2440.0	2472.4
15°	2086.1	2101.6	2117.2	2158.7	2217.0	2297.4	2375.2	2454.3	2466.0	2536.0	2571.0
17.5°	2141.8	2162.6	2174.2	2215.7	2278.0	2367.4	2469.8	2560.6	2571.0	2652.7	2696.7
20°	2252.0	2276.7	2280.6	2314.3	2375.2	2471.1	2593.0	2705.8	2718.8	2812.1	2861.4
22.5°	2480.2	2515.2	2484.1	2501.0	2555.4	2651.4	2783.6	2926.2	2944.4	3050.7	3094.8
25°	2882.1	2931.4	2851.0	2822.5	2845.8	2945.7	3111.6	3291.8	3312.6	3398.1	3420.2
27.5°	3671.7	3608.2	3486.3	3367.0	3297.0	3354.1	3540.8	3763.8	3789.7	3872.7	3846.7
30°	4539.1	4483.3	4318.7	4054.2	3888.2	3879.2	4051.6	4300.5	4330.3	4409.4	4330.3
32.5°	5407.7	5354.6	5175.7	4850.2	4562.4	4419.8	4539.1	4815.2	4830.8	4881.4	4764.7
35°	6262.1	6207.7	6028.8	5695.6	5341.6	5017.5	4994.2	5305.3	5310.5	5363.7	5189.9
37.5°	7121.7	7076.3	6885.8	6559.0	6210.3	5763.0	5546.5	5769.5	5775.9	5827.8	5647.6
40°	7735.0	7754.4	7623.5	7370.7	7071.2	6582.4	6166.2	6263.4	6224.5	6311.4	6203.8
42.5°	8261.4	8300.2	8186.2	8059.1	7885.4	7454.9	6933.7	6916.9	6854.6	6901.3	6789.8
45°	8716.4	8748.8	8646.4	8616.6	8612.7	8310.6	7772.6	7671.4	7584.6	7575.5	7442.0
47.5°	8883.7	8945.9	8990.0	9089.8	9284.3	9157.2	8639.9	8483.1	8385.8	8314.5	8103.2
50°	8947.2	9013.3	9163.7	9454.1	9914.4	9968.9	9503.4	9327.1	9207.8	9078.2	8767.0
52.5°	8861.6	8979.6	9181.9	9670.7	10338.4	10619.7	10331.9	10177.6	10041.5	9830.1	9368.6
55°	8357.3	8475.3	8888.9	9668.1	10549.7	11076.1	11115.0	11046.3	10893.3	10560.1	9854.8
57.5°	7294.2	7469.2	8123.9	9338.8	10545.8	11468.9	11882.5	11931.8	11760.6	11283.5	10237.2
60°	5821.3	6058.6	6857.2	8608.8	10220.4	11681.5	12555.4	12801.7	12620.2	11996.6	10547.1
62.5°	4062.0	4336.8	5092.7	7465.3	9476.2	11528.6	13046.8	13501.8	13364.4	12634.5	10666.4
65°	2477.6	2565.8	3175.2	5874.5	8210.8	10888.1	13198.5	13880.4	13835.0	13024.7	10490.1
67.5°	1650.5	1724.4	1899.4	4028.3	6373.6	9608.4	12835.4	13814.3	13827.3	12961.2	9844.4
70°	994.4	1058.0	1172.0	2342.8	4130.7	7605.3	11711.4	12971.6	13046.8	12112.0	8620.5
72.5°	409.7	452.5	556.2	1061.8	2139.2	4826.9	9325.8	11137.0	11312.0	10184.1	6616.1
75°	232.1	254.1	326.7	532.9	928.3	2249.4	5648.9	7906.1	8164.1	7019.3	3980.3
77.5°	154.3	164.7	211.3	344.9	522.5	767.5	2414.1	4119.0	4611.7	3833.8	1723.1
80°	103.7	112.8	145.2	230.8	339.7	329.3	768.8	1526.0	1877.3	1317.3	420.1
82.5°	70.0	71.3	103.7	151.7	215.2	159.5	226.9	474.5	596.4	381.2	159.5
85°	40.2	38.9	76.5	88.2	95.9	66.1	68.7	142.6	186.7	160.8	90.8
87.5°	5.2	7.8	29.8	23.3	13.0	14.3	14.3	24.6	36.3	38.9	19.4
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°	2249.4	2249.4	2249.4	2249.4	2249.4	2249.4	2249.4	2249.4	2249.4	2249.4	2249.4
2.5°	2252.0	2250.7	2246.8	2243.0	2233.9	2228.7	2231.3	2228.7	2227.4	2228.7	2233.9
5°	2268.9	2265.0	2254.6	2241.7	2223.5	2201.5	2187.2	2166.5	2147.0	2135.4	2137.9
7.5°	2314.3	2310.4	2296.1	2259.8	2201.5	2109.4	2025.1	1951.2	1895.5	1863.1	1864.4
10°	2386.9	2380.4	2358.3	2278.0	2125.0	1924.0	1756.8	1618.0	1527.3	1484.5	1480.6
12.5°	2472.4	2464.7	2425.8	2261.1	1979.8	1666.0	1435.2	1281.0	1196.7	1159.1	1155.2
15°	2573.6	2563.2	2486.7	2180.7	1768.4	1380.8	1169.5	1054.1	999.6	965.9	967.2
17.5°	2699.3	2681.2	2532.1	2060.2	1539.0	1163.0	1006.1	919.2	871.3	838.8	836.2
20°	2862.7	2832.9	2568.4	1916.2	1327.6	1025.5	895.9	823.3	787.0	758.5	753.3
22.5°	3090.9	3048.1	2612.5	1760.7	1178.5	930.9	814.2	761.1	731.2	698.8	693.6
25°	3373.5	3323.0	2666.9	1616.7	1076.1	849.2	754.6	710.5	675.5	637.9	634.0
27.5°	3769.0	3678.2	2731.7	1498.8	987.9	779.2	700.1	650.8	610.7	579.5	573.1
30°	4209.8	4060.7	2788.8	1427.5	907.6	714.4	628.8	579.5	541.9	519.9	516.0
32.5°	4627.2	4425.0	2826.4	1396.3	835.0	640.5	551.0	497.9	469.3	462.9	466.7
35°	5021.4	4754.3	2822.5	1366.5	770.1	566.6	474.5	420.1	398.0	401.9	401.9
37.5°	5475.2	5105.7	2795.3	1319.8	717.0	499.2	408.4	360.4	341.0	342.3	347.5
40°	6002.8	5511.5	2778.4	1231.7	658.6	436.9	353.9	315.1	300.8	295.6	294.3
42.5°	6565.5	5904.3	2781.0	1131.9	586.0	381.2	316.3	283.9	271.0	267.1	265.8
45°	7130.8	6279.0	2784.9	1028.1	509.5	338.4	289.1	261.9	254.1	248.9	248.9
47.5°	7662.4	6597.9	2712.3	916.6	434.3	306.0	267.1	248.9	242.4	236.0	236.0
50°	8157.6	6810.6	2537.3	787.0	374.7	280.0	250.2	237.3	230.8	224.3	224.3
52.5°	8542.7	6844.3	2248.1	653.4	333.2	260.6	239.9	228.2	220.4	213.9	212.6
55°	8713.8	6632.9	1837.2	529.0	300.8	243.7	229.5	217.8	208.7	202.3	201.0
57.5°	8669.8	6188.2	1432.6	425.3	269.7	226.9	216.5	208.7	198.4	188.0	186.7
60°	8453.2	5593.1	1080.0	353.9	241.2	208.7	202.3	195.8	181.5	166.0	163.4
62.5°	8078.5	4845.1	770.1	293.0	210.0	188.0	185.4	180.2	159.5	130.9	128.4
65°	7505.5	3936.2	518.6	243.7	180.2	164.7	166.0	156.9	129.7	97.2	94.6
67.5°	6667.9	2878.2	331.9	199.7	150.4	137.4	138.7	133.5	110.2	83.0	79.1
70°	5600.9	1905.9	216.5	151.7	120.6	106.3	114.1	115.4	93.3	67.4	64.8
72.5°	4106.0	1125.4	151.7	112.8	88.2	73.9	93.3	95.9	75.2	50.6	48.0
75°	2340.2	534.2	114.1	81.7	54.5	51.9	72.6	72.6	51.9	33.7	31.1
77.5°	982.8	223.0	80.4	53.2	31.1	29.8	49.3	45.4	25.9	15.6	15.6
80°	283.9	99.8	42.8	25.9	13.0	11.7	19.4	14.3	6.5	2.6	2.6
82.5°	111.5	44.1	16.9	10.4	5.2	5.2	2.6	0.0	0.0	0.0	0.0
85°	66.1	18.2	7.8	3.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.9	3.9	2.6	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)