

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: P884316

Luminaire Tested: **NVN-SB5A-827-U-T2-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884316
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB5A-827-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13505 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

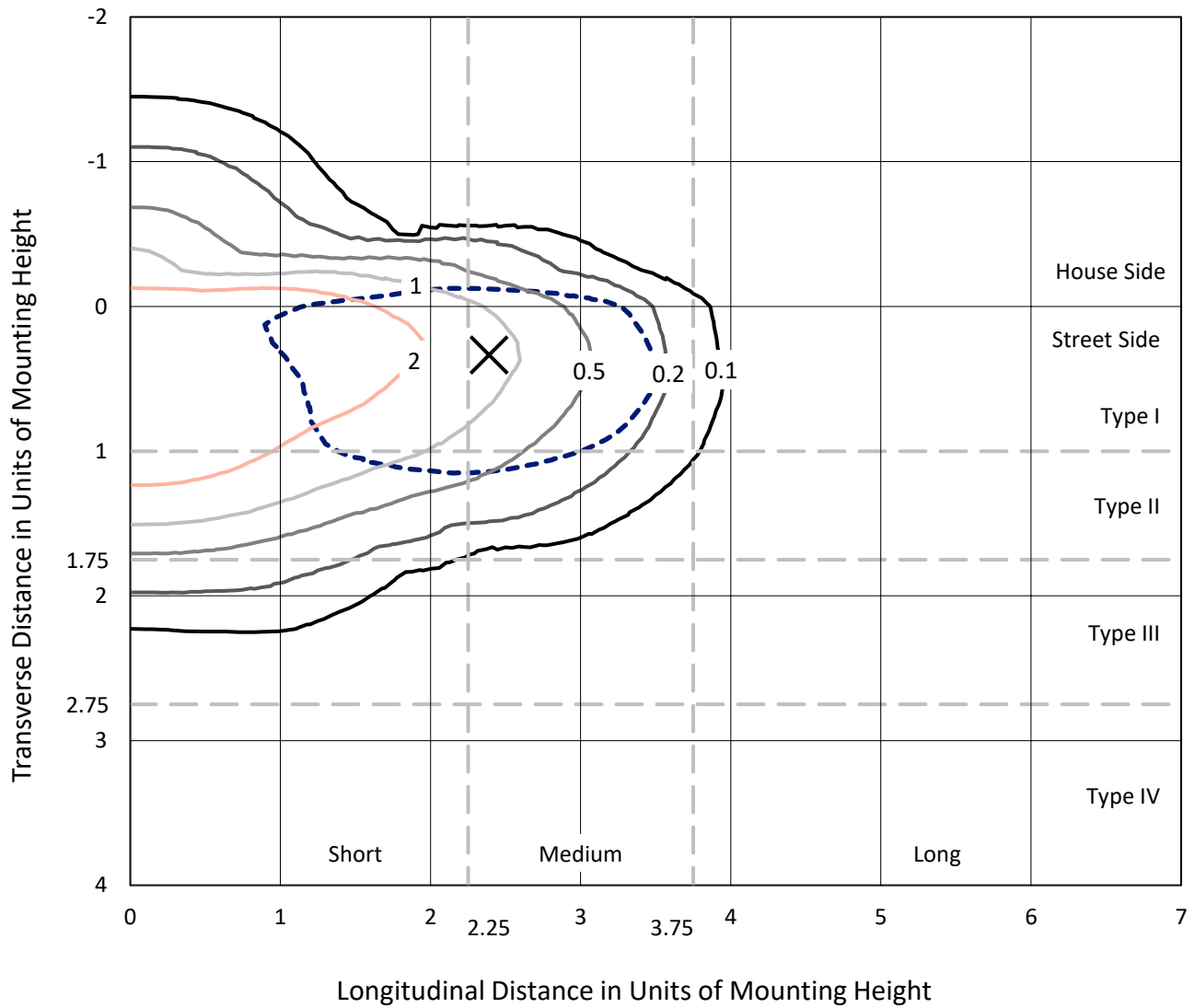
Input Watts (W): 141.7
Input Voltage (V): 120.0
Input Current (Ain): 1.201
Voltage Rise (V): NR
Power Factor: 0.992
Total Harmonic Distortion (THDi): 10.503
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

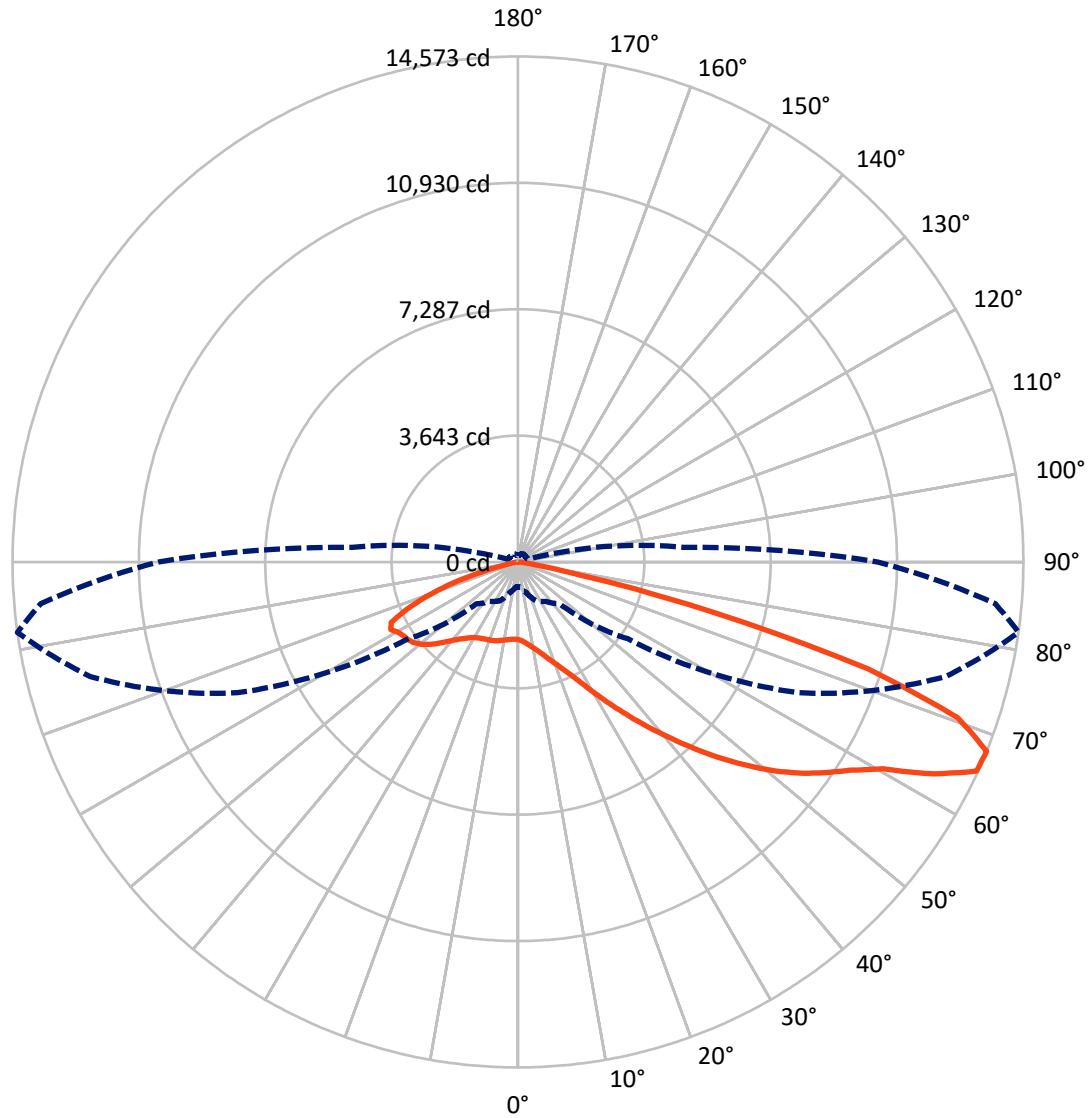
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2446.3	0.0	2446.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	11058.7	0.0	11058.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	13505.0	0.0	13505.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.3	1.5
10°-20°	518.0	3.8
20°-30°	829.6	6.1
30°-40°	1467.0	10.9
40°-50°	2570.4	19.0
50°-60°	3428.2	25.4
60°-70°	3191.5	23.6
70°-80°	1224.9	9.1
80°-90°	76.1	0.6
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°	13505.0	100.0
0°-180°	13505.0	100.0

Coefficient of Utilization



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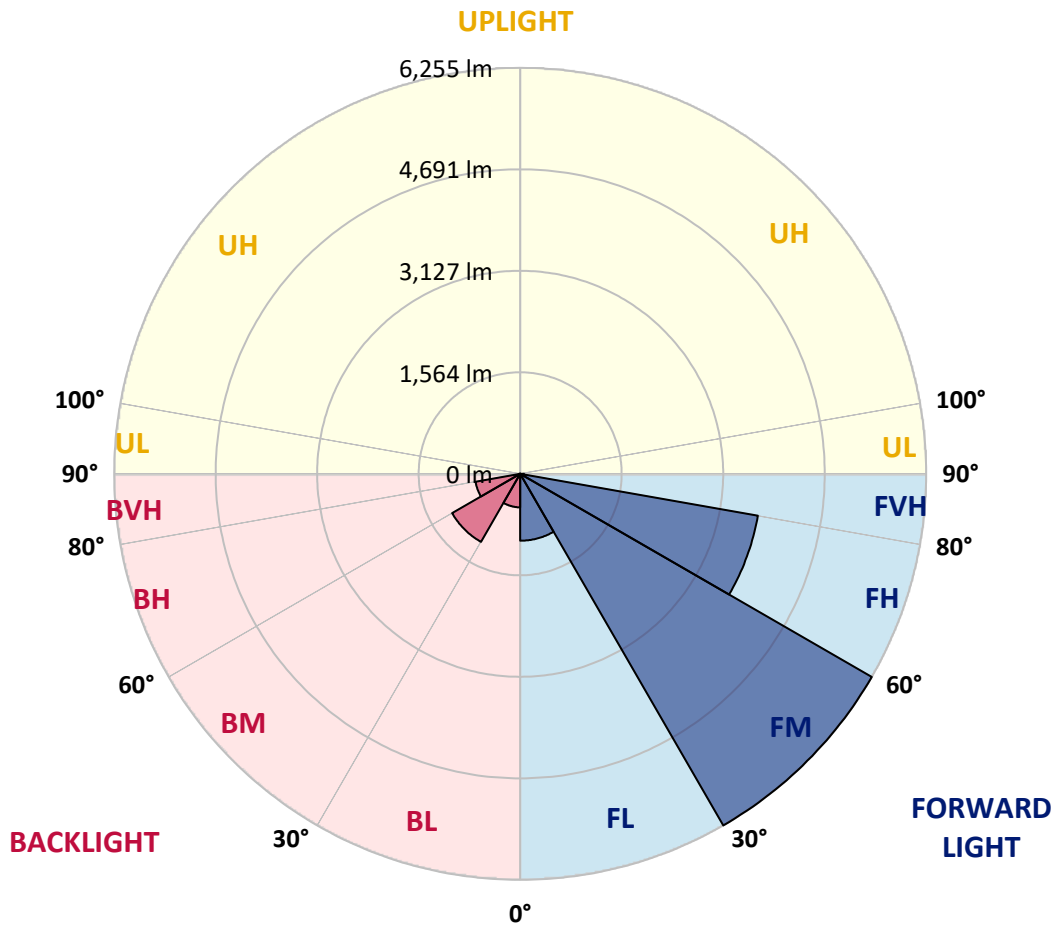
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1030.3	7.6			
FM (30°-60°)	6255.0	46.3			
FH (60°-80°)	3718.1	27.5			G2/5000
FVH (80°-90°)	55.3	0.4			G1/100
BL (0°-30°)	516.7	3.8	B2/1000		
BM (30°-60°)	1210.7	9.0	B2/2500		
BH (60°-80°)	698.2	5.2	B2/1000		G2/1000
BVH (80°-90°)	20.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2237.3	2237.3	2237.3	2237.3	2237.3	2237.3	2237.3	2237.3	2237.3	2237.3	2237.3
2.5°	2364.7	2378.3	2370.5	2366.6	2359.8	2350.1	2342.3	2318.0	2292.7	2276.2	2270.4
5°	2412.3	2426.0	2425.0	2428.9	2433.7	2436.6	2434.7	2407.5	2371.5	2343.3	2326.8
7.5°	2371.5	2387.1	2399.7	2419.1	2453.2	2489.2	2506.7	2500.8	2463.9	2425.0	2404.6
10°	2255.8	2272.3	2302.5	2348.2	2420.1	2497.9	2563.1	2593.2	2569.9	2527.1	2498.9
12.5°	2043.8	2060.4	2119.7	2218.8	2339.4	2474.6	2599.0	2679.7	2685.6	2642.8	2609.7
15°	1805.6	1822.1	1885.3	2009.8	2193.6	2410.4	2618.5	2771.1	2822.7	2785.7	2745.8
17.5°	1657.8	1672.4	1720.0	1820.2	2011.7	2282.0	2611.7	2868.4	2986.0	2956.8	2909.2
20°	1613.1	1625.7	1648.1	1718.1	1877.6	2148.8	2566.9	2959.8	3162.0	3145.5	3092.0
22.5°	1660.7	1672.4	1679.2	1710.3	1810.5	2061.3	2510.5	3053.1	3366.2	3368.1	3303.0
25°	1770.6	1782.3	1774.5	1793.9	1837.7	2034.1	2489.2	3163.0	3622.9	3644.3	3570.4
27.5°	1951.5	1952.4	1934.0	1933.0	1939.8	2074.9	2511.5	3280.6	3946.7	3986.5	3895.1
30°	2314.1	2299.6	2228.6	2151.8	2116.8	2197.5	2573.7	3419.7	4328.8	4399.8	4285.0
32.5°	2873.2	2851.8	2721.5	2537.8	2353.0	2394.8	2685.6	3578.2	4744.9	4873.3	4733.3
35°	3480.0	3474.1	3338.0	3064.8	2742.0	2675.8	2867.4	3786.2	5199.0	5403.2	5236.9
37.5°	4043.9	4041.0	3963.2	3641.4	3248.5	3067.7	3159.1	4058.5	5685.2	5980.8	5784.4
40°	4559.2	4568.0	4490.2	4202.4	3806.7	3570.4	3555.8	4394.9	6225.8	6609.9	6376.5
42.5°	5004.6	5014.3	4935.5	4722.6	4358.0	4126.6	4042.9	4807.2	6753.8	7285.6	7009.5
45°	5307.0	5367.2	5355.6	5185.4	4923.9	4683.7	4628.3	5324.5	7355.6	8002.2	7678.5
47.5°	5392.5	5447.9	5535.5	5558.8	5399.3	5163.0	5229.2	5947.7	7964.3	8719.8	8351.3
50°	5181.5	5233.1	5414.9	5657.0	5767.8	5694.9	5813.5	6615.7	8587.6	9435.4	9011.5
52.5°	4765.4	4817.9	5047.3	5430.4	5882.6	6112.0	6399.8	7274.0	9191.4	10113.2	9636.7
55°	4163.5	4218.9	4513.5	4947.2	5663.8	6284.1	6888.9	7931.3	9744.6	10722.8	10200.7
57.5°	3344.8	3385.6	3691.9	4298.7	5113.5	6113.0	7249.7	8648.8	10265.8	11321.8	10759.8
60°	2180.0	2215.9	2571.8	3248.5	4201.4	5541.3	7321.6	9449.1	10958.1	12100.6	11513.3
62.5°	1449.7	1474.0	1685.0	2181.9	2958.8	4443.5	6900.6	10087.9	11973.2	13456.0	12805.5
65°	994.7	1019.0	1230.0	1576.1	1911.6	2939.3	5690.1	10003.3	12893.0	14532.4	13763.3
67.5°	709.8	730.2	909.1	1235.8	1383.6	1707.4	3857.2	8922.1	12760.8	14573.2	13814.8
70°	508.5	520.2	668.0	962.6	1099.7	1025.8	2145.0	6823.8	11173.0	13457.0	12762.7
72.5°	355.9	359.8	463.8	733.1	885.8	748.7	1020.9	4549.5	8450.5	10562.4	9894.4
75°	241.1	246.0	312.1	537.7	710.8	571.7	540.6	2439.6	4960.8	5846.6	5240.8
77.5°	147.8	149.7	201.3	367.5	531.9	435.6	348.1	1033.6	1919.4	1884.4	1606.3
80°	83.6	83.6	128.3	228.5	362.7	281.0	244.1	439.5	607.7	533.8	470.6
82.5°	46.7	47.6	93.3	142.0	240.2	166.3	134.2	203.2	262.5	232.4	202.2
85°	19.4	21.4	57.4	67.1	114.7	82.6	54.5	85.6	97.2	86.5	63.2
87.5°	1.9	2.9	17.5	12.6	13.6	16.5	7.8	16.5	13.6	13.6	9.7
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°	2237.3	2237.3	2237.3	2237.3	2237.3	2237.3	2237.3	2237.3	2237.3	2237.3	2237.3
2.5°	2251.9	2237.3	2200.4	2157.6	2101.2	2074.0	2037.0	2011.7	1990.4	1992.3	1972.8
5°	2295.7	2258.7	2176.1	2073.0	1944.7	1853.3	1756.0	1688.9	1634.5	1622.8	1596.6
7.5°	2355.9	2297.6	2152.7	1967.0	1750.2	1585.9	1439.0	1344.7	1277.6	1256.2	1234.9
10°	2433.7	2349.1	2122.6	1833.8	1521.7	1312.6	1155.1	1081.2	1035.5	1020.0	1008.3
12.5°	2524.2	2408.5	2082.7	1671.4	1286.4	1085.1	985.0	948.0	933.4	928.6	925.7
15°	2637.9	2482.3	2022.4	1478.9	1087.1	946.1	903.3	898.4	900.4	898.4	897.5
17.5°	2773.1	2563.1	1924.2	1280.6	952.9	875.1	859.5	863.4	868.3	867.3	865.4
20°	2920.9	2642.8	1798.8	1104.6	861.5	824.5	815.8	819.7	823.6	821.6	820.6
22.5°	3089.1	2728.3	1659.8	967.5	800.2	777.9	768.1	769.1	769.1	765.2	763.3
25°	3290.4	2822.7	1513.9	870.2	753.6	736.1	724.4	720.5	714.7	703.0	701.0
27.5°	3530.5	2922.8	1373.9	802.2	716.6	700.1	686.5	676.7	662.2	642.7	640.8
30°	3800.8	3044.4	1255.3	759.4	687.4	670.9	655.3	640.8	619.4	595.1	593.1
32.5°	4118.8	3174.6	1168.7	731.2	661.2	643.7	625.2	607.7	584.4	560.1	561.0
35°	4498.0	3332.2	1118.2	711.7	640.8	617.4	597.0	577.6	560.1	538.7	536.7
37.5°	4909.3	3499.4	1102.6	702.0	627.2	591.2	567.8	554.2	552.3	539.6	538.7
40°	5359.5	3697.8	1114.3	696.2	612.6	565.9	540.6	537.7	542.6	520.2	521.2
42.5°	5835.9	3933.1	1133.7	689.4	592.1	540.6	516.3	516.3	512.4	481.3	481.3
45°	6351.2	4204.3	1153.2	672.8	567.8	515.3	496.9	490.1	473.5	443.4	442.4
47.5°	6870.5	4480.5	1167.8	642.7	538.7	493.9	477.4	461.9	437.5	410.3	409.3
50°	7363.4	4728.4	1152.2	598.0	505.6	473.5	456.0	434.6	408.4	389.9	387.0
52.5°	7803.9	4943.3	1086.1	545.5	470.6	452.1	436.6	414.2	392.8	373.4	371.4
55°	8187.0	5117.4	969.4	495.9	439.5	433.7	418.1	389.9	360.7	344.2	342.3
57.5°	8554.5	5249.6	823.6	455.0	411.3	413.2	389.9	364.6	337.4	319.9	318.0
60°	9043.6	5426.5	675.8	417.1	381.2	387.0	361.7	343.2	309.2	286.8	283.9
62.5°	9825.4	5701.7	536.7	370.5	346.1	348.1	337.4	315.0	274.2	247.9	246.0
65°	10445.7	5600.6	423.0	319.9	306.3	309.2	309.2	284.9	241.1	211.0	208.1
67.5°	10375.7	4795.5	337.4	270.3	268.4	270.3	277.1	256.7	213.9	189.6	185.7
70°	9558.0	3814.4	270.3	224.6	233.4	228.5	247.9	234.3	192.5	168.2	165.3
72.5°	7799.0	2747.8	206.1	185.7	178.9	186.7	223.6	211.0	160.4	133.2	130.3
75°	4557.3	1466.3	153.6	146.8	129.3	155.6	198.4	179.9	122.5	98.2	95.3
77.5°	1483.8	511.4	112.8	107.9	96.3	125.4	169.2	151.7	100.1	77.8	74.9
80°	397.7	154.6	76.8	71.0	62.2	93.3	134.2	120.6	72.0	50.6	49.6
82.5°	159.5	65.1	44.7	39.9	34.0	64.2	106.0	97.2	53.5	32.1	32.1
85°	51.5	21.4	16.5	12.6	15.6	39.9	63.2	66.1	37.9	16.5	12.6
87.5°	6.8	2.9	2.9	3.9	2.9	6.8	19.4	18.5	10.7	1.9	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)