

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: P969441

Luminaire Tested: **NVN-SB5D-827-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969441
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB5D-827-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38143.4 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

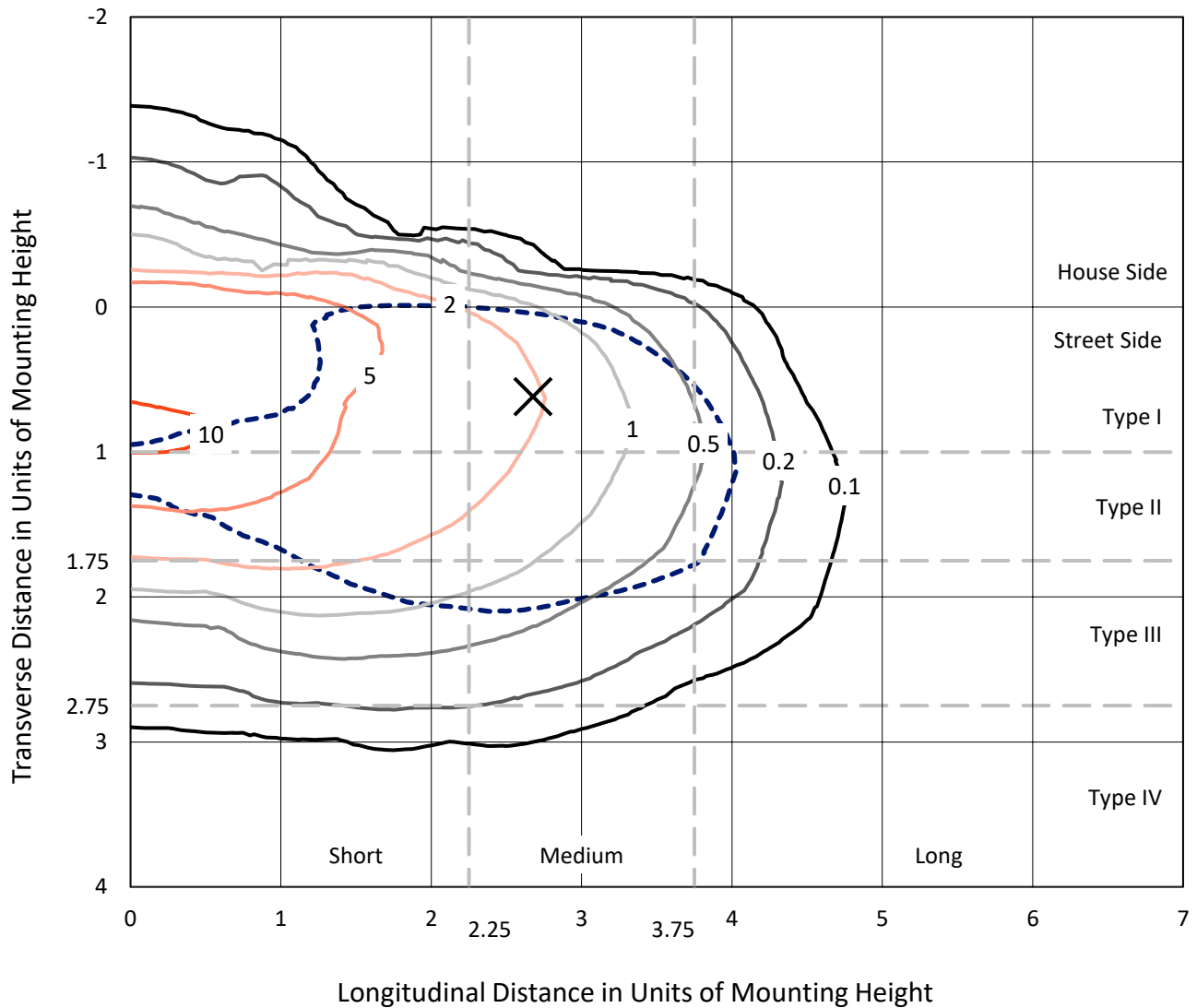
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

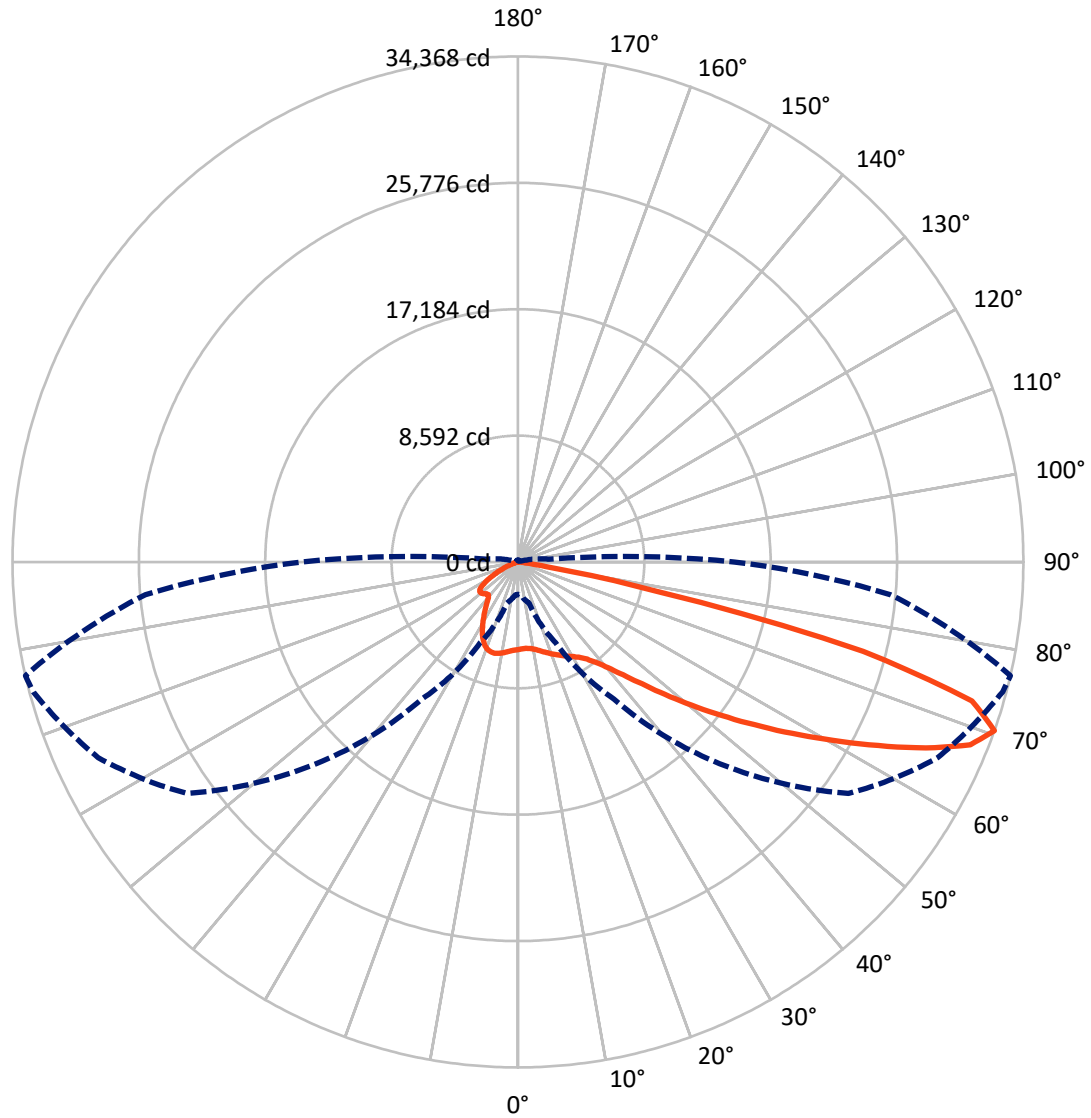
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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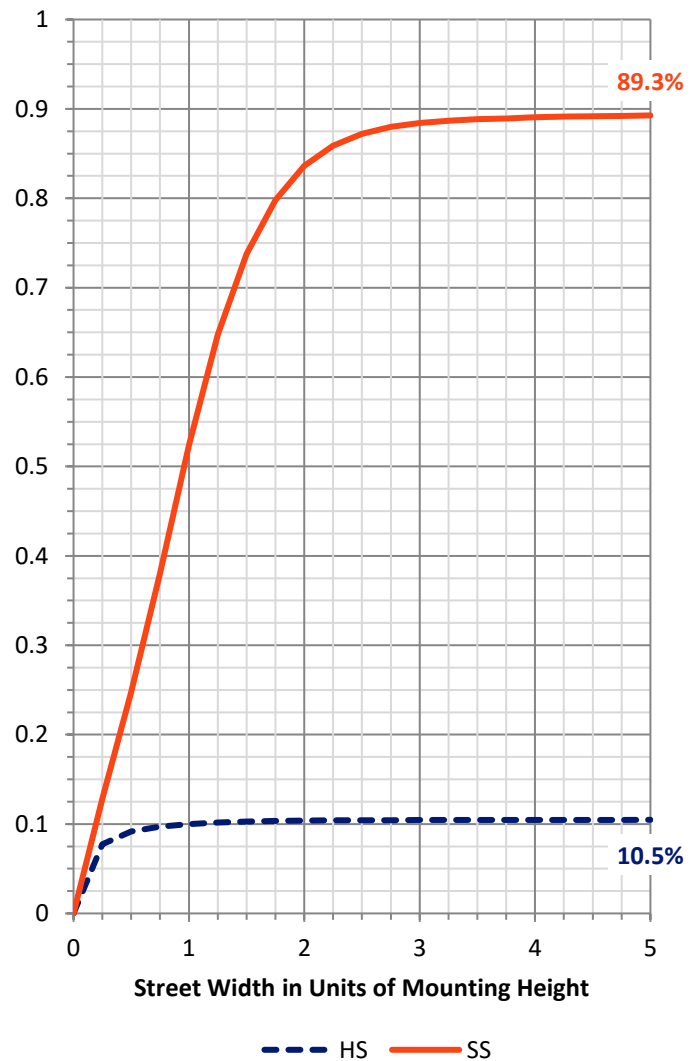
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4020.9	0.0	4020.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	34122.5	0.0	34122.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	38143.4	0.0	38143.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	512.8	1.3
10°-20°	1217.3	3.2
20°-30°	1882.8	4.9
30°-40°	3416.4	9.0
40°-50°	6448.8	16.9
50°-60°	9317.9	24.4
60°-70°	9918.7	26.0
70°-80°	5256.2	13.8
80°-90°	172.6	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°	38143.4	100.0
0°-180°	38143.4	100.0

Coefficient of Utilization



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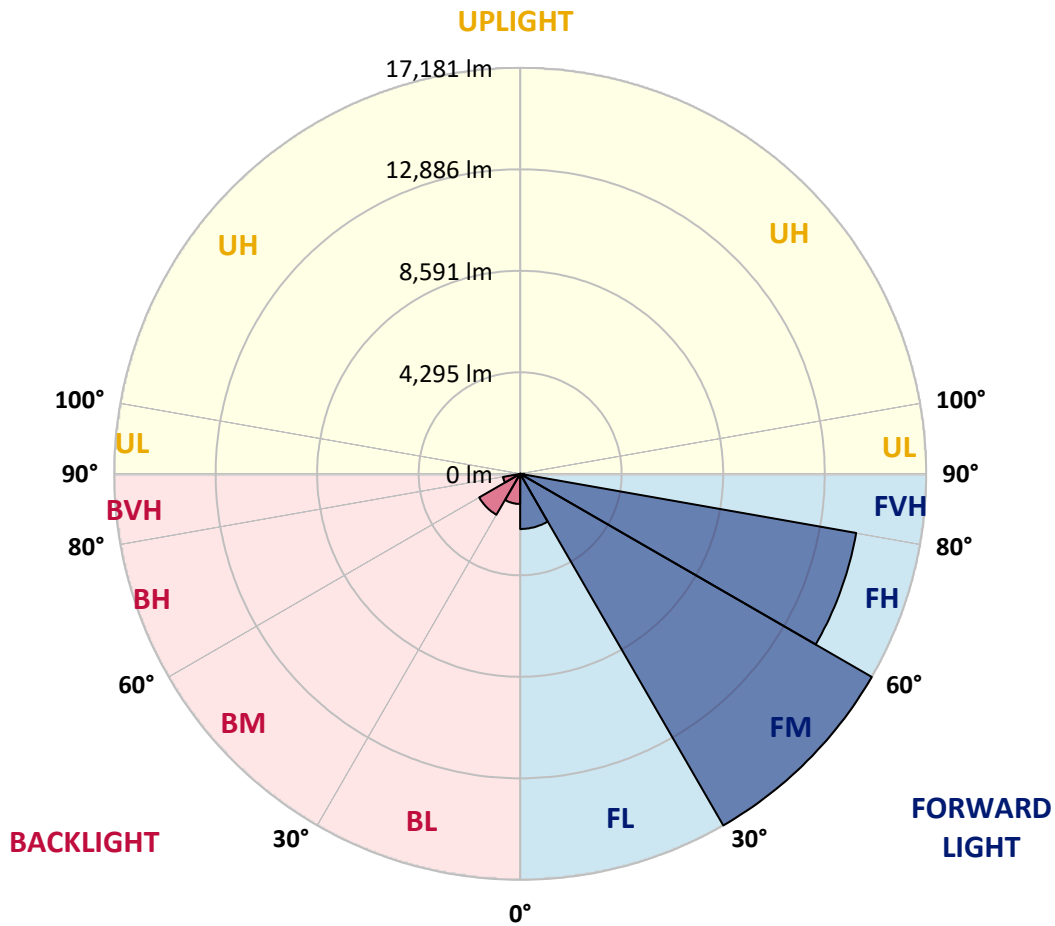
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2335.3	6.1			
FM (30°-60°)	17181.5	45.0			
FH (60°-80°)	14437.8	37.9			G5
FVH (80°-90°)	168.0	0.4			G2/225
BL (0°-30°)	1277.5	3.3	B3/2500		
BM (30°-60°)	2001.6	5.2	B2/2500		
BH (60°-80°)	737.1	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	5949.7	5949.7	5949.7	5949.7	5949.7	5949.7	5949.7	5949.7	5949.7	5949.7	5949.7
2.5°	5585.9	5636.6	5629.3	5663.0	5675.1	5723.3	5771.5	5836.5	5908.7	5906.4	5954.5
5°	5270.3	5321.0	5333.1	5378.8	5436.6	5511.3	5610.0	5740.1	5875.0	5896.7	5993.1
7.5°	4897.0	4950.0	4981.3	5072.8	5178.8	5333.1	5494.4	5684.8	5908.7	5940.1	6125.5
10°	4523.6	4571.8	4612.8	4742.9	4911.5	5140.3	5402.9	5677.5	5978.6	6024.3	6286.9
12.5°	4292.4	4338.2	4383.9	4497.2	4706.7	4986.1	5342.7	5711.2	6094.2	6159.2	6506.1
15°	4210.5	4251.5	4287.6	4388.7	4583.9	4901.9	5330.6	5781.1	6241.1	6327.8	6771.0
17.5°	4222.6	4244.2	4268.3	4345.4	4535.7	4863.3	5352.3	5901.5	6414.6	6491.6	7036.0
20°	4292.4	4304.5	4306.8	4359.8	4528.4	4858.5	5395.7	6017.2	6578.3	6682.0	7298.6
22.5°	4381.6	4386.4	4381.6	4417.6	4574.3	4894.6	5453.5	6156.9	6761.4	6857.8	7563.6
25°	4798.2	4706.7	4591.1	4521.3	4651.3	4964.5	5540.2	6344.7	6961.4	7055.3	7821.3
27.5°	6091.8	5829.3	5415.0	4950.0	4810.3	5065.7	5660.7	6535.0	7163.7	7248.0	8098.3
30°	8192.2	7847.8	7144.5	6096.6	5321.0	5277.6	5817.2	6725.3	7378.1	7469.6	8394.5
32.5°	10297.5	10213.2	9401.4	7951.3	6470.0	5749.7	6077.3	6983.0	7662.3	7734.5	8794.4
35°	12426.9	12255.8	11591.0	10157.8	8240.4	6710.9	6510.9	7320.2	8035.7	8117.6	9377.3
37.5°	14057.6	13954.0	13542.1	12361.8	10340.8	8194.7	7252.8	7843.0	8577.6	8669.1	10124.0
40°	15498.0	15449.8	15310.1	14532.1	12689.4	10136.1	8406.6	8652.3	9329.1	9437.6	11039.5
42.5°	16630.2	16743.4	16822.9	16606.1	15110.2	12352.2	9957.9	9789.3	10377.0	10487.8	12205.3
45°	17788.8	17827.3	18147.7	18460.9	17514.2	14669.4	11706.6	11121.4	11680.2	11817.4	13602.4
47.5°	18533.1	18687.3	19250.9	19802.5	19535.2	16967.4	13585.5	12694.2	13190.4	13448.2	15168.1
50°	18588.5	18880.0	19655.6	20616.6	21006.9	19154.6	15628.1	14486.3	15013.9	15298.1	16839.7
52.5°	17666.0	18118.8	19320.7	20727.4	21801.9	21006.9	17740.6	16278.5	16955.3	17326.3	18574.0
55°	13544.6	14137.1	18061.0	20125.3	21833.1	22411.2	19797.7	18145.3	19118.4	19537.5	20448.0
57.5°	11800.6	12099.3	14199.7	19079.9	21252.6	22977.3	21657.3	19922.9	21471.8	21992.1	22218.5
60°	9818.2	10210.7	11909.0	17369.6	20464.9	23032.7	23300.1	22216.2	24022.7	24608.0	23842.0
62.5°	6672.3	7098.6	8787.2	14431.0	19388.2	23006.2	24646.5	24576.7	26857.9	27486.5	25217.5
65°	4133.4	4400.8	5513.7	11783.7	17882.8	23035.1	26055.7	27443.1	29849.5	30487.8	26282.1
67.5°	3266.3	3389.2	3969.6	9047.4	15288.5	22384.8	27462.4	30138.6	32665.4	33171.3	26607.4
70°	2194.4	2269.0	2888.1	6065.3	11374.2	19383.4	27436.0	31492.3	34115.5	34368.4	25422.2
72.5°	1156.2	1214.0	1688.6	2808.6	6869.9	13778.2	23126.7	29873.6	32672.6	32292.0	21729.6
75°	578.1	674.4	1136.9	1426.0	2933.9	7684.0	14361.1	23553.0	25716.0	24241.9	13941.9
77.5°	438.4	529.9	939.4	939.4	1021.3	2587.0	6082.1	12846.0	11848.8	9866.3	4092.5
80°	279.4	361.3	821.4	710.6	426.4	657.6	1585.0	3598.7	2517.2	1915.0	744.4
82.5°	163.8	236.1	684.1	469.8	238.5	243.3	448.0	766.0	652.8	508.3	228.9
85°	65.1	154.2	469.8	185.5	94.0	60.3	134.9	163.8	134.9	101.2	57.8
87.5°	0.0	36.2	81.9	0.0	7.3	4.8	9.6	12.1	12.1	9.6	19.3
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°	5949.7	5949.7	5949.7	5949.7	5949.7	5949.7	5949.7	5949.7	5949.7	5949.7	5949.7
2.5°	5976.2	5981.0	5995.4	5997.9	5964.2	5920.8	5903.9	5896.7	5867.8	5865.4	5870.2
5°	6048.4	6070.2	6048.4	5985.8	5836.5	5626.9	5468.0	5337.9	5219.8	5183.6	5162.0
7.5°	6192.9	6214.7	6149.6	5903.9	5528.1	5111.4	4735.6	4470.6	4232.2	4143.0	4107.0
10°	6400.1	6429.0	6224.3	5728.1	5063.2	4393.6	3757.6	3309.6	2960.4	2818.2	2758.1
12.5°	6660.2	6672.3	6265.2	5460.7	4458.6	3502.3	2601.4	2122.2	1811.4	1695.8	1659.7
15°	6946.9	6930.0	6270.0	5096.9	3634.9	2476.2	1698.2	1394.7	1269.5	1230.9	1230.9
17.5°	7248.0	7178.2	6173.7	4571.8	2731.5	1693.4	1259.8	1187.6	1165.8	1156.2	1153.8
20°	7544.3	7387.7	5997.9	3885.4	1960.7	1264.6	1144.2	1122.5	1110.5	1105.7	1100.8
22.5°	7814.1	7546.7	5696.7	3088.0	1423.6	1117.7	1081.6	1062.3	1040.6	1030.9	1028.6
25°	8076.6	7638.2	5272.8	2343.8	1139.4	1045.4	1016.5	980.4	951.5	939.4	934.6
27.5°	8331.9	7696.0	4742.9	1734.3	1016.5	978.0	925.0	874.4	852.7	847.9	843.1
30°	8604.2	7715.3	4140.7	1293.6	941.9	893.7	816.6	758.8	746.7	749.2	749.2
32.5°	8936.6	7744.2	3533.7	1059.8	879.2	792.5	701.0	640.7	631.1	640.7	638.4
35°	9334.0	7802.0	2948.3	975.6	823.8	688.9	590.2	539.6	529.9	537.2	534.7
37.5°	9873.5	7896.0	2401.6	958.7	778.1	602.2	496.2	455.3	455.3	457.7	455.3
40°	10591.3	8146.5	1912.5	946.7	754.0	537.2	419.1	402.3	409.5	414.3	414.3
42.5°	11465.8	8678.8	1582.6	932.2	727.4	508.3	380.6	373.4	385.4	390.2	390.2
45°	12446.2	9353.2	1467.0	908.2	703.4	527.6	363.8	354.1	368.6	370.9	373.4
47.5°	13460.2	10013.2	1452.5	881.6	679.3	556.5	359.0	337.2	354.1	356.5	359.0
50°	14486.3	10444.4	1467.0	840.7	640.7	556.5	361.3	320.4	334.9	342.0	344.5
52.5°	15519.7	10642.0	1457.3	751.5	573.3	522.8	361.3	306.0	320.4	325.2	325.2
55°	16521.8	10603.4	1310.4	619.1	486.6	462.5	351.7	293.9	303.5	306.0	306.0
57.5°	17314.3	10066.2	1038.2	481.7	395.0	385.4	320.4	279.4	286.7	284.2	284.2
60°	17728.6	8885.9	741.9	370.9	310.8	303.5	281.9	260.1	265.0	253.0	250.5
62.5°	17733.4	7325.1	496.2	293.9	248.2	240.9	240.9	233.7	228.9	204.8	197.5
65°	17355.2	5593.2	330.0	233.7	200.0	187.9	202.3	200.0	183.1	149.3	144.5
67.5°	16497.7	3666.1	250.5	183.1	154.2	147.0	161.4	168.6	156.6	125.3	122.9
70°	14734.5	2134.2	207.2	142.2	115.6	108.4	130.1	144.5	130.1	101.2	96.4
72.5°	12239.0	1151.4	168.6	106.0	79.5	72.3	103.6	118.1	103.6	74.7	72.3
75°	7941.7	616.6	130.1	69.9	41.0	45.8	77.1	86.7	72.3	48.2	43.4
77.5°	2666.5	272.2	81.9	33.7	19.3	19.3	45.8	53.0	33.7	16.9	14.5
80°	595.0	113.3	33.7	14.5	7.3	7.3	9.6	9.6	4.8	0.0	0.0
82.5°	195.2	45.8	14.5	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	74.7	16.9	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	28.9	2.5	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)