

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: P969424

Luminaire Tested: **NVN-SB5D-827-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P969424  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB5D-827-U-SL2  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

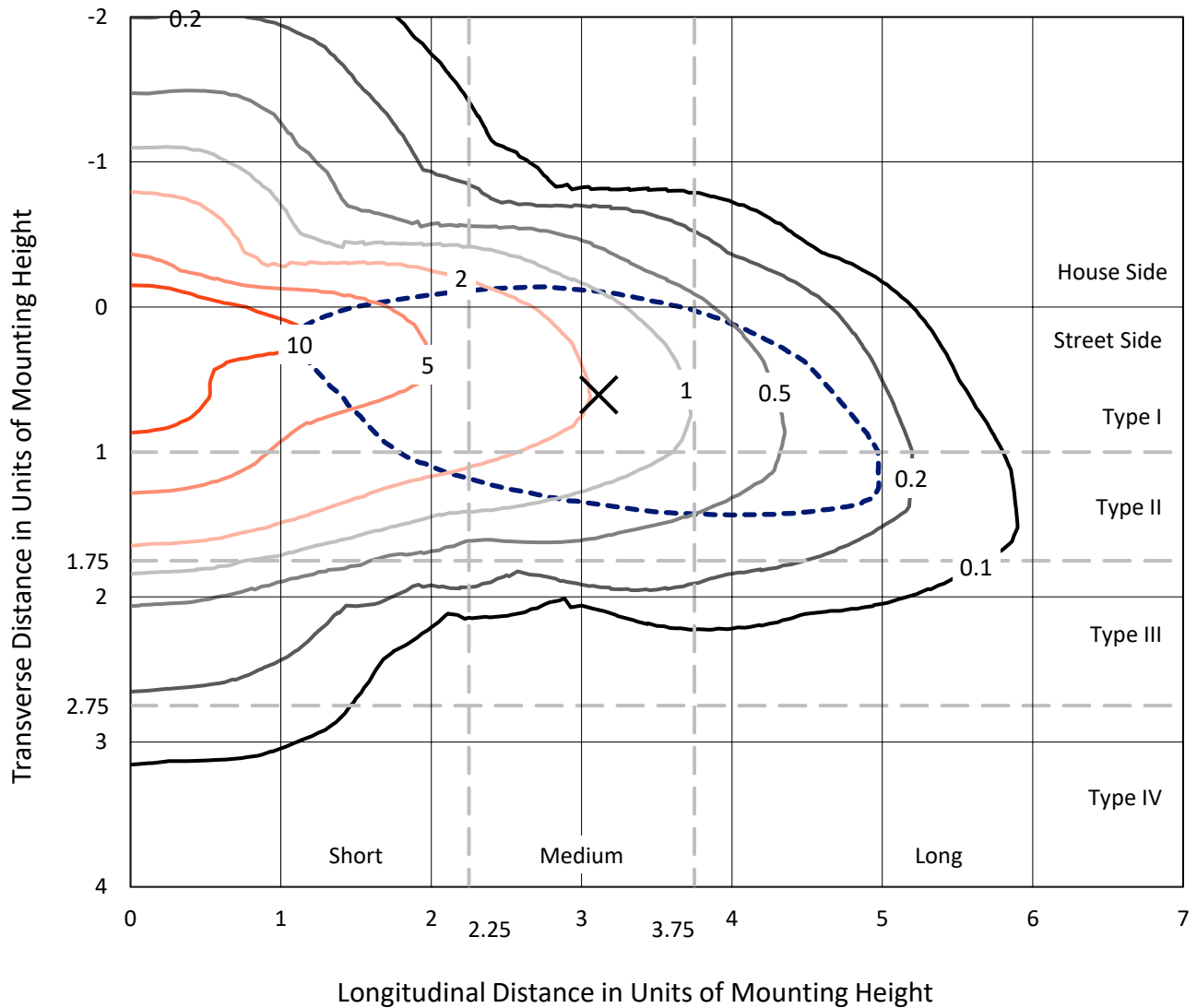
Lumens per Lamp: N/A  
Luminaire Lumens: 45538.7 lumens  
Efficiency: N/A  
Efficacy: 124.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): 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

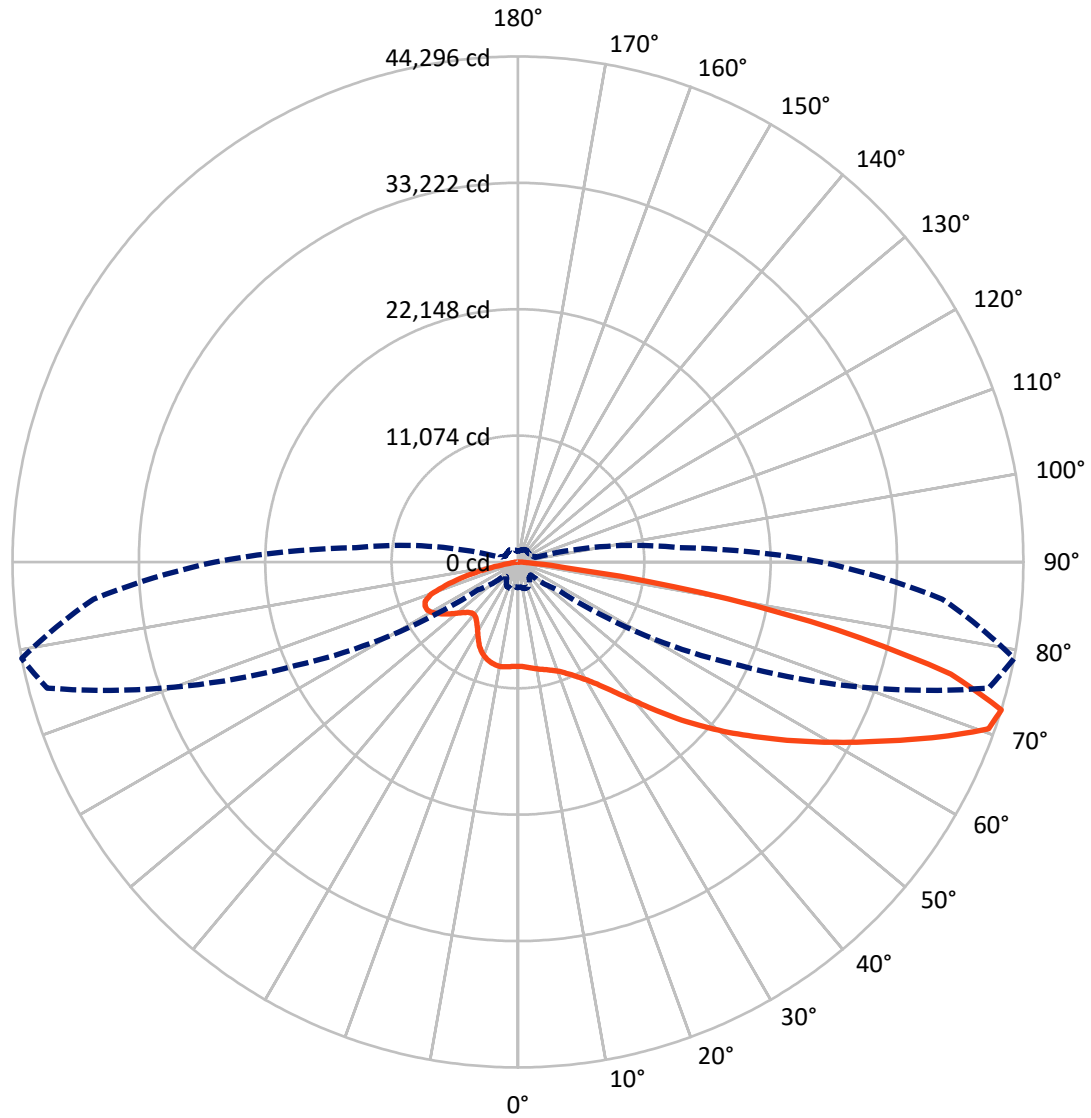
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 fc  
 Type II - Medium - N/A

REPORT NUMBER: P969424  
CATALOG NUMBER: NVN-SB5D-827-U-SL2

### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P969424

CATALOG NUMBER: NVN-SB5D-827-U-SL2

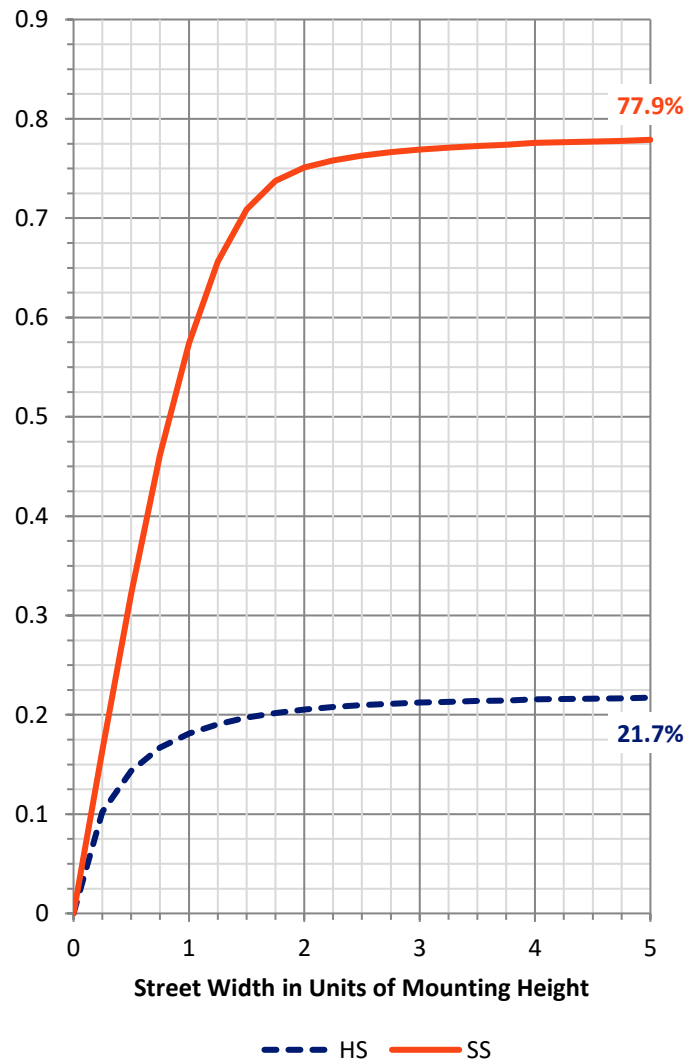
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10021.0	0.0	10021.0
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	35517.7	0.0	35517.7
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	45538.7	0.0	45538.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	829.8	1.8
10°-20°	2169.5	4.8
20°-30°	3500.6	7.7
30°-40°	5253.9	11.5
40°-50°	7453.0	16.4
50°-60°	9412.2	20.7
60°-70°	9559.3	21.0
70°-80°	6515.1	14.3
80°-90°	845.3	1.9
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°	45538.7	100.0
0°-180°	45538.7	100.0

**Coefficient of Utilization**



REPORT NUMBER: P969424

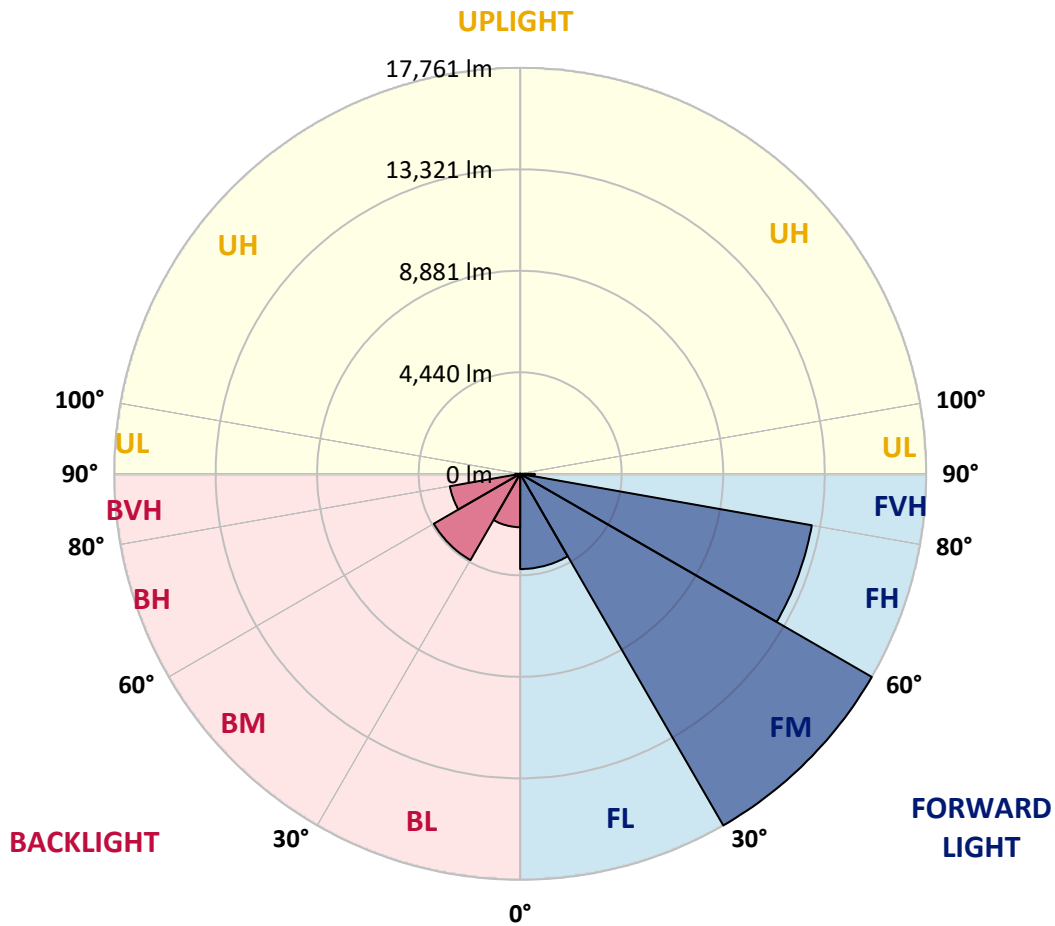
CATALOG NUMBER: NVN-SB5D-827-U-SL2

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4165.7	9.1			
FM (30°-60°)	17761.0	39.0			
FH (60°-80°)	12954.2	28.4			G5
FVH (80°-90°)	636.8	1.4			G4/750
BL (0°-30°)	2334.2	5.1	B3/2500		
BM (30°-60°)	4358.1	9.6	B3/5000		
BH (60°-80°)	3120.2	6.9	B4/5000		G4/5000
BVH (80°-90°)	208.5	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type II Medium



REPORT NUMBER: P969424

CATALOG NUMBER: NVN-SB5D-827-U-SL2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	9141.5	9141.5	9141.5	9141.5	9141.5	9141.5	9141.5	9141.5	9141.5	9141.5	9141.5
2.5°	9146.3	9102.9	9129.4	9119.7	9131.8	9146.3	9151.1	9158.3	9182.4	9180.0	9177.5
5°	9127.0	9083.7	9119.7	9107.7	9139.0	9172.7	9201.7	9228.2	9266.7	9283.6	9259.5
7.5°	9086.0	9057.1	9093.3	9129.4	9187.2	9237.8	9278.8	9339.0	9394.4	9404.1	9420.9
10°	8847.6	8825.9	8910.2	9004.1	9163.1	9300.4	9389.6	9459.4	9519.7	9529.3	9553.4
12.5°	8599.4	8573.0	8666.9	8794.6	9052.3	9300.4	9488.3	9579.9	9632.8	9664.2	9700.3
15°	8558.5	8536.8	8589.8	8700.6	8915.0	9235.5	9555.8	9724.4	9770.2	9806.3	9820.7
17.5°	8756.1	8715.1	8736.8	8775.3	8900.6	9175.2	9608.8	9888.2	9958.1	9996.6	9996.6
20°	9213.7	9155.9	9122.2	9045.1	9023.4	9184.8	9603.9	10085.7	10177.2	10225.4	10237.5
22.5°	9823.2	9784.6	9712.4	9517.2	9305.3	9302.9	9695.5	10338.7	10509.6	10555.4	10526.5
25°	10560.3	10502.5	10410.9	10146.0	9738.8	9536.5	9849.6	10661.4	10948.0	10960.1	10875.8
27.5°	11408.1	11321.4	11196.2	10846.9	10297.7	9902.6	10085.7	11032.4	11451.5	11446.7	11273.3
30°	12301.8	12215.1	12082.6	11658.7	10967.3	10396.5	10413.3	11432.2	12048.9	12022.4	11726.1
32.5°	12954.7	12889.6	12863.0	12535.4	11738.2	10979.4	10789.0	11875.4	12786.0	12761.9	12347.6
35°	13455.7	13371.3	13402.7	13236.4	12578.8	11632.2	11249.2	12403.0	13682.1	13679.6	13164.2
37.5°	13951.9	13877.2	13903.7	13792.9	13356.9	12460.8	11810.5	13048.6	14792.6	14845.6	14151.8
40°	14404.7	14325.2	14431.2	14327.7	13961.5	13342.4	12448.7	13778.5	16078.9	16180.0	15346.6
42.5°	14676.9	14614.2	14790.1	14792.6	14486.6	14086.8	13149.7	14583.0	17567.5	17793.9	16815.9
45°	14770.9	14749.2	15014.2	15069.6	14951.6	14517.9	13780.8	15459.8	19171.8	19576.5	18490.1
47.5°	14669.7	14628.7	14994.9	15199.6	15293.6	14720.3	14303.6	16408.8	20809.8	21402.3	20316.0
50°	14159.0	14079.5	14623.9	15055.1	15390.0	14852.8	14831.1	17504.8	22671.8	23319.8	22151.5
52.5°	13241.3	13181.1	13800.1	14549.3	15178.0	14917.8	15423.7	18702.0	24439.9	25278.1	24032.8
55°	12068.1	11988.7	12670.3	13648.4	14650.4	14896.1	16016.2	20041.3	26525.9	27376.2	25976.7
57.5°	10208.6	10049.6	10911.9	12068.1	13790.5	14869.7	16632.9	21373.4	28645.7	29664.6	28050.7
60°	7496.2	7260.2	8317.7	9688.3	12109.1	14611.9	17396.5	22866.9	31189.3	32107.1	30315.0
62.5°	4364.8	4227.5	4918.8	6197.9	9127.0	13094.4	17825.3	24603.7	33689.7	34653.2	32540.7
65°	3389.2	3350.6	3410.9	3509.6	5080.2	9803.9	16502.8	26297.1	36869.4	37543.8	34860.4
67.5°	3100.1	3071.2	3097.8	2912.2	2577.5	5460.8	13055.8	26725.8	40275.4	40684.9	36891.1
70°	2755.7	2722.0	2808.7	2649.7	2028.3	2483.5	8435.6	25169.7	42985.3	43753.8	38435.0
72.5°	2245.1	2206.5	2408.9	2336.6	1707.9	1594.6	4237.1	21472.2	42701.1	44295.8	37329.5
75°	1724.7	1703.0	1943.9	2004.2	1392.3	1255.0	2033.1	15960.8	37577.5	39184.2	32172.2
77.5°	1339.3	1322.5	1445.2	1664.5	1122.5	973.1	1250.2	10124.2	28318.1	28599.9	22170.7
80°	1004.5	956.3	1069.5	1288.7	874.4	710.6	847.9	5904.0	17899.9	16225.7	9649.8
82.5°	628.7	604.6	698.5	860.0	616.6	489.0	551.7	3261.5	7173.5	4225.0	1862.0
85°	359.0	349.3	380.6	491.4	334.9	281.9	315.6	1440.4	1310.4	900.9	561.3
87.5°	144.5	139.7	173.4	219.2	122.9	103.6	110.8	346.9	289.0	267.4	185.5
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: P969424

CATALOG NUMBER: NVN-SB5D-827-U-SL2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9141.5	9141.5	9141.5	9141.5	9141.5	9141.5	9141.5	9141.5	9141.5	9141.5	9141.5
2.5°	9167.9	9167.9	9134.2	9081.2	9021.0	8982.5	8919.9	8902.9	8838.0	8818.7	8850.0
5°	9278.8	9259.5	9155.9	9006.6	8801.8	8613.9	8406.7	8276.7	8093.6	8028.6	8076.8
7.5°	9418.5	9365.5	9187.2	8859.6	8430.8	8009.4	7571.0	7238.4	6920.5	6807.3	6821.8
10°	9546.1	9471.5	9167.9	8594.6	7852.7	7122.8	6424.3	5935.4	5564.4	5412.6	5446.3
12.5°	9673.8	9536.5	9040.3	8153.9	7031.3	6041.3	5297.0	4916.4	4687.5	4504.5	4564.7
15°	9794.3	9601.6	8842.8	7563.7	6130.4	5125.9	4576.7	4273.2	4090.2	3969.7	3991.5
17.5°	9934.0	9656.9	8546.4	6814.5	5272.9	4492.5	4044.4	3861.4	3825.2	3810.7	3820.4
20°	10129.0	9707.6	8156.2	5976.3	4641.8	3986.6	3755.4	3738.5	3736.1	3728.8	3752.9
22.5°	10338.7	9767.7	7640.8	5215.1	4104.6	3671.0	3630.0	3596.3	3574.7	3572.2	3598.8
25°	10586.7	9787.0	6995.2	4591.2	3647.0	3521.7	3473.5	3422.9	3408.4	3408.4	3422.9
27.5°	10827.6	9722.0	6243.7	4049.3	3389.2	3384.3	3321.7	3304.9	3302.4	3309.7	3329.0
30°	11068.6	9599.1	5496.9	3548.1	3239.8	3239.8	3218.2	3230.2	3239.8	3263.9	3280.8
32.5°	11393.7	9469.1	4873.1	3177.2	3109.7	3085.7	3107.4	3131.5	3141.1	3172.4	3198.9
35°	11870.6	9377.5	4376.9	2974.9	2974.9	2943.6	2955.6	2950.8	2929.1	2914.7	2948.4
37.5°	12501.7	9372.7	3967.4	2881.0	2861.7	2856.9	2859.2	2828.0	2743.6	2642.4	2644.9
40°	13260.5	9502.8	3651.8	2815.9	2801.4	2830.3	2815.9	2731.6	2500.4	2324.5	2319.7
42.5°	14279.5	9873.7	3449.4	2736.4	2779.8	2815.9	2758.1	2466.7	2310.0	2192.1	2187.2
45°	15479.0	10475.9	3345.8	2652.1	2738.8	2782.2	2502.7	2375.1	2249.9	2107.7	2098.1
47.5°	16837.7	11234.7	3321.7	2572.6	2647.3	2673.8	2394.4	2336.6	2194.4	2040.3	2028.3
50°	18316.6	12133.2	3386.8	2478.7	2514.8	2423.3	2358.2	2305.2	2158.3	2006.5	1989.7
52.5°	19846.3	13123.3	3516.9	2351.0	2382.3	2281.1	2343.8	2298.0	2136.6	1931.9	1917.5
55°	21349.3	14120.5	3642.1	2201.7	2247.4	2153.5	2302.9	2269.1	2037.9	1806.6	1794.6
57.5°	22876.6	15112.9	3765.0	2069.2	2117.3	2030.6	2237.8	2192.1	1927.1	1690.9	1686.1
60°	24464.0	16076.4	3822.8	1941.6	1975.3	1917.5	2139.1	2059.5	1801.7	1573.0	1565.7
62.5°	25950.2	16878.6	3728.8	1813.8	1835.5	1811.4	2009.0	1903.0	1676.5	1440.4	1438.1
65°	27441.2	17355.5	3439.8	1688.6	1693.4	1681.3	1825.8	1734.3	1529.6	1324.8	1310.4
67.5°	28792.6	17622.9	2979.7	1553.7	1541.6	1536.8	1654.9	1551.2	1387.4	1209.2	1194.7
70°	29079.2	16943.7	2276.3	1394.7	1394.7	1382.6	1467.0	1361.0	1230.9	1086.4	1081.6
72.5°	26559.6	14252.9	1616.3	1214.0	1233.3	1209.2	1279.1	1189.9	1071.9	975.6	946.7
75°	21416.8	10451.8	1175.5	1028.6	1062.3	1021.3	1086.4	1023.8	922.6	920.1	828.6
77.5°	14715.5	6462.8	852.7	847.9	872.0	819.0	893.7	860.0	768.4	727.4	681.7
80°	6279.8	2577.5	621.5	655.2	655.2	607.0	693.7	703.4	623.9	604.6	604.6
82.5°	1250.2	732.3	436.0	450.5	423.9	409.5	491.4	544.4	751.5	835.9	838.2
85°	375.8	269.8	262.6	245.7	216.8	219.2	289.0	546.8	674.4	385.4	332.4
87.5°	103.6	67.4	69.9	55.5	45.8	60.3	98.8	414.3	226.4	96.4	81.9
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)