

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: P970496

Luminaire Tested: **NVN-SB6B-827-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970496
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB6B-827-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31245.1 lumens
Efficiency: N/A
Efficacy: 141.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

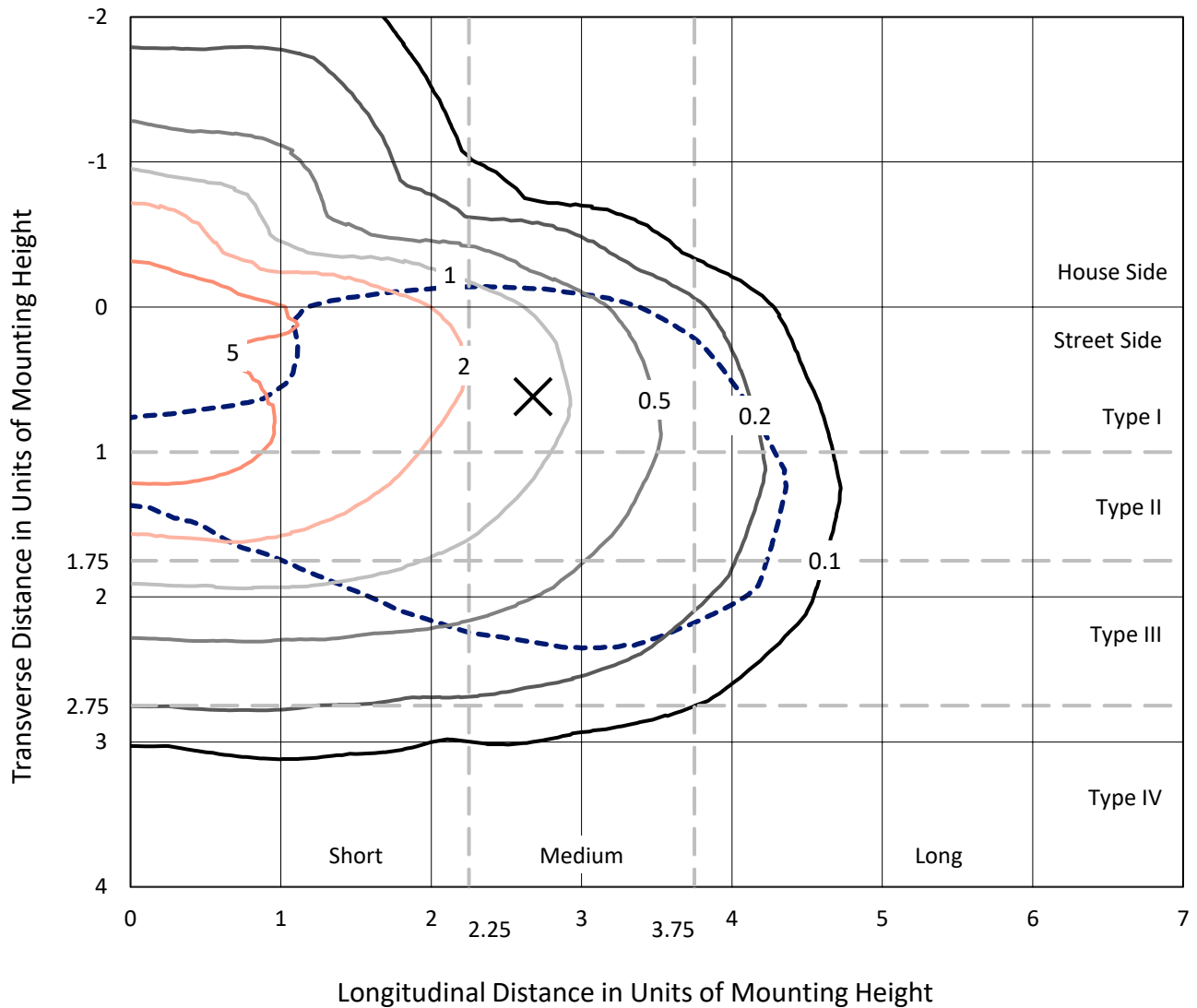
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

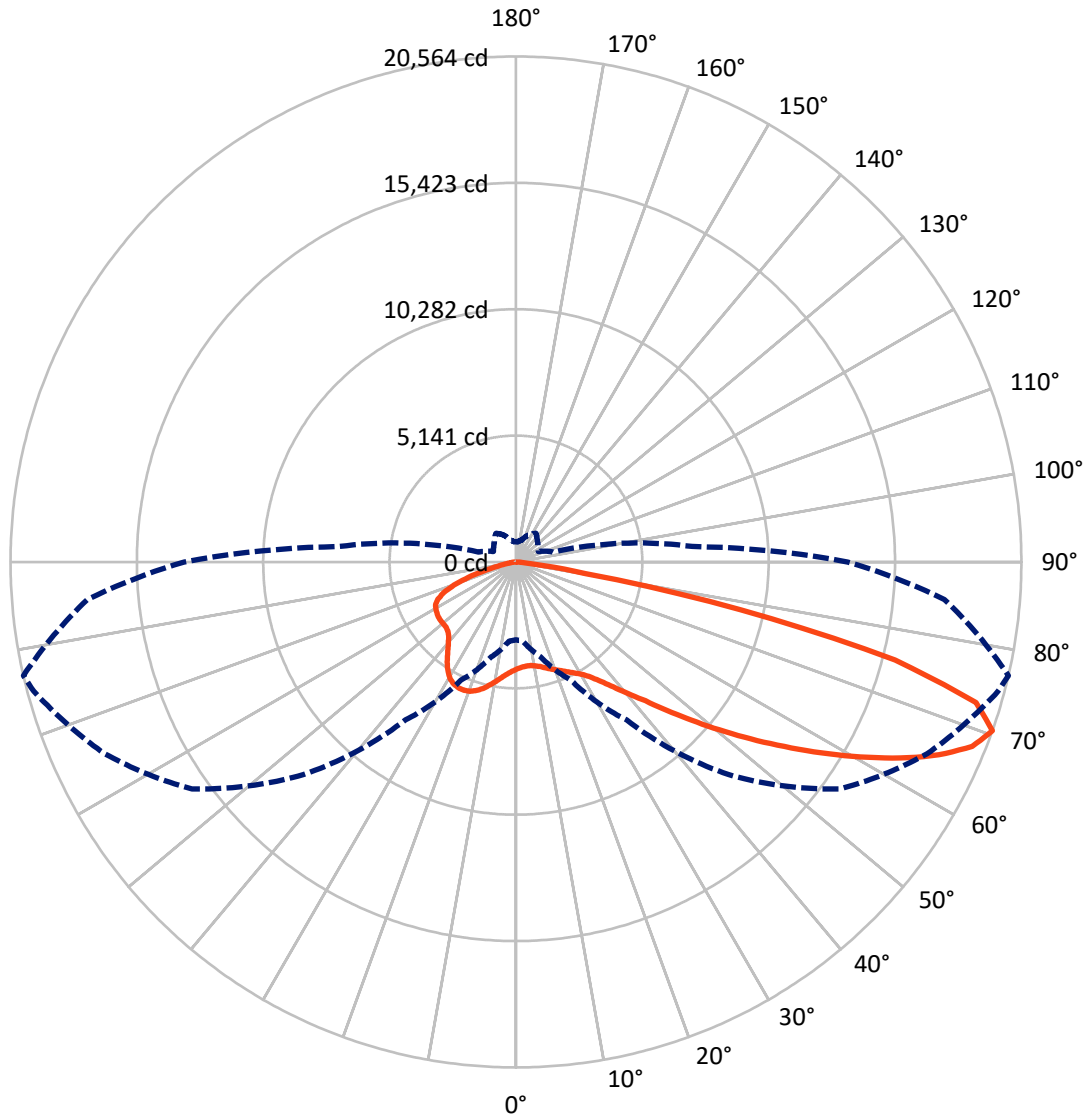
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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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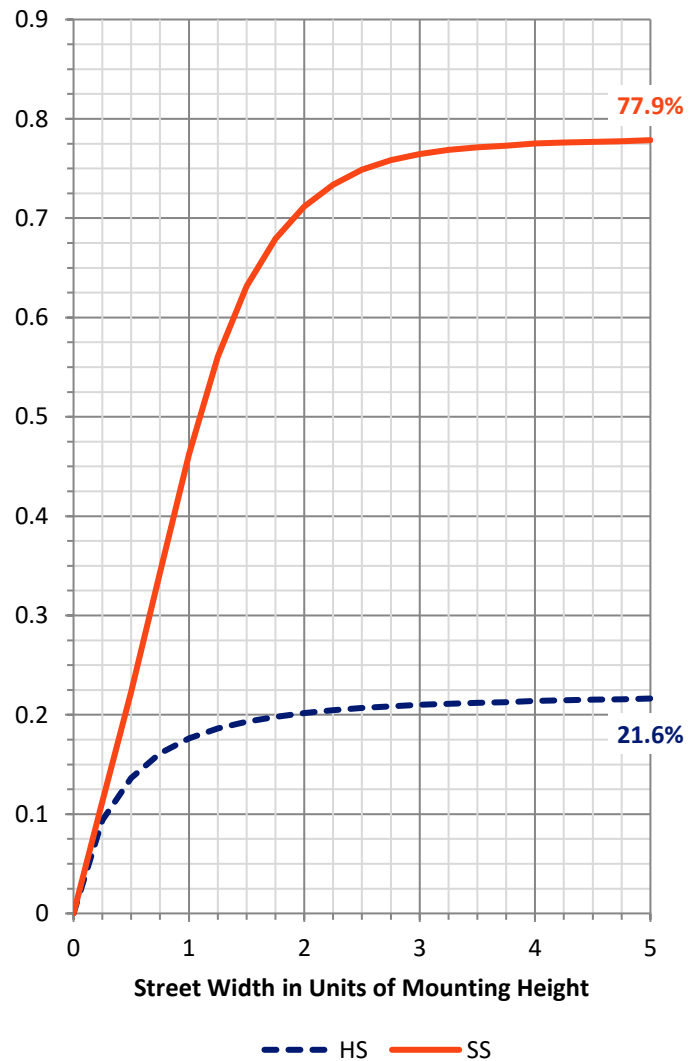
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6842.2	0.0	6842.2
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	24402.9	0.0	24402.9
	% Fixture	78.1	0.0	78.1
Total	Lumens	31245.1	0.0	31245.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	415.7	1.3
10°-20°	1199.8	3.8
20°-30°	2051.9	6.6
30°-40°	3299.6	10.6
40°-50°	5151.6	16.5
50°-60°	6881.3	22.0
60°-70°	7334.4	23.5
70°-80°	4515.0	14.5
80°-90°	395.6	1.3
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°	31245.1	100.0
0°-180°	31245.1	100.0



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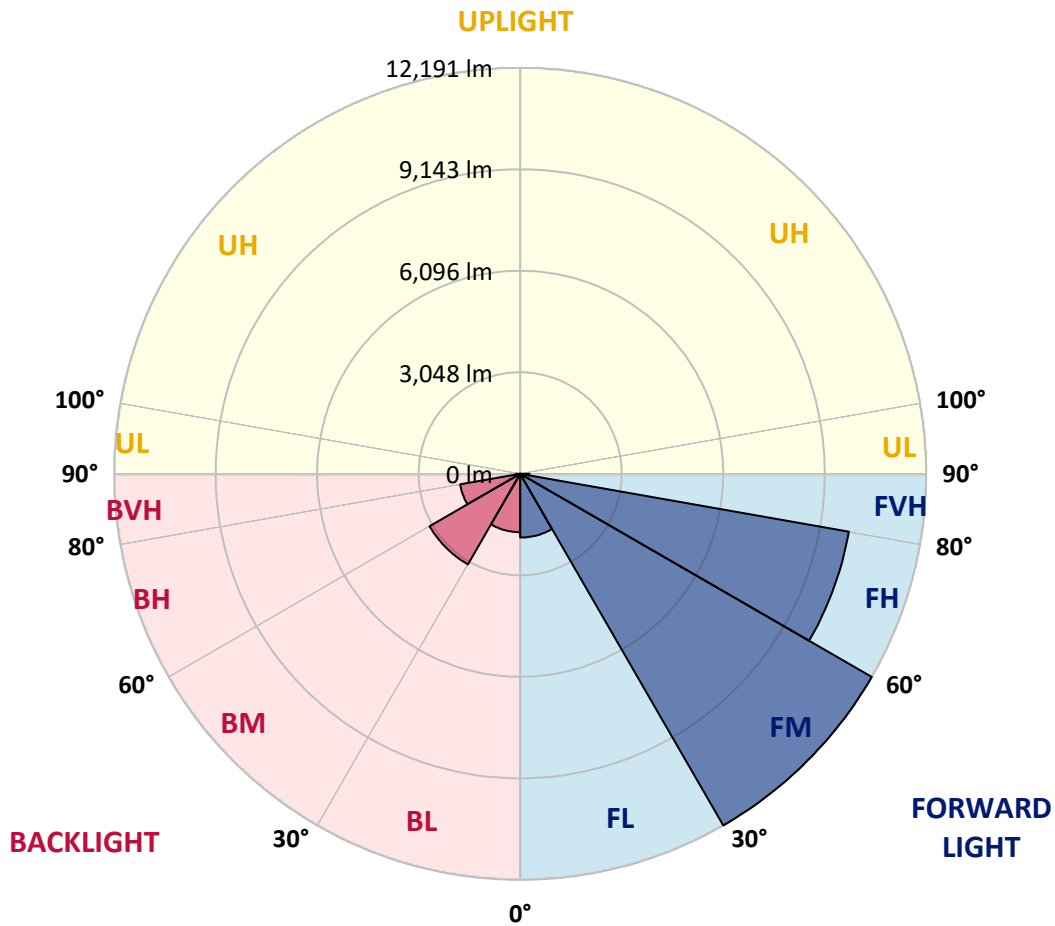
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1914.3	6.1			
FM (30°-60°)	12191.1	39.0			
FH (60°-80°)	10020.8	32.1			G4/12000
FVH (80°-90°)	276.7	0.9			G3/500
BL (0°-30°)	1753.2	5.6	B3/2500		
BM (30°-60°)	3141.4	10.1	B3/5000		
BH (60°-80°)	1828.6	5.9	B3/2500		G3/2500
BVH (80°-90°)	119.0	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	4359.0	4359.0	4359.0	4359.0	4359.0	4359.0	4359.0	4359.0	4359.0	4359.0	4359.0
2.5°	4018.1	4016.6	4037.4	4043.7	4082.2	4109.3	4160.6	4215.0	4285.3	4293.3	4336.6
5°	3786.1	3786.1	3810.1	3835.8	3885.3	3939.7	4018.1	4112.5	4234.2	4253.3	4360.6
7.5°	3589.2	3602.1	3622.9	3672.5	3730.1	3808.5	3928.5	4062.9	4223.0	4253.3	4426.2
10°	3430.9	3445.2	3470.9	3510.8	3597.2	3706.1	3862.9	4035.7	4250.2	4298.1	4522.2
12.5°	3381.3	3395.6	3410.1	3440.4	3520.5	3648.5	3835.8	4048.5	4315.8	4363.7	4653.4
15°	3496.5	3514.1	3502.8	3494.8	3536.5	3653.3	3848.5	4095.0	4397.4	4466.2	4815.0
17.5°	3762.1	3768.5	3742.9	3667.7	3661.3	3723.7	3909.3	4158.9	4499.8	4575.0	4978.2
20°	4190.9	4179.7	4127.0	3978.1	3893.4	3880.5	4013.3	4255.0	4605.4	4685.4	5154.3
22.5°	4773.4	4760.6	4655.0	4419.8	4231.0	4106.2	4163.8	4379.8	4723.8	4813.4	5325.5
25°	5499.9	5482.3	5327.1	5007.0	4714.2	4405.3	4368.5	4544.6	4869.5	4952.7	5504.8
27.5°	6348.0	6333.7	6165.6	5743.2	5320.7	4815.0	4623.1	4738.3	5021.5	5115.9	5706.4
30°	7260.2	7301.8	7004.1	6549.6	6015.2	5349.5	4965.4	4976.7	5218.3	5303.1	5951.2
32.5°	8332.3	8404.3	8045.8	7469.8	6740.1	5930.3	5397.5	5309.5	5504.8	5575.2	6260.0
35°	9394.8	9476.4	9178.8	8541.9	7701.8	6615.2	5848.8	5691.9	5885.5	5962.4	6669.7
37.5°	10313.3	10422.2	10268.6	9714.8	8730.7	7441.0	6437.6	6141.6	6354.4	6450.4	7220.1
40°	11038.2	11204.7	11193.5	10847.8	9943.7	8442.7	7184.9	6696.8	6936.9	7040.9	7887.5
42.5°	11627.1	11771.1	11895.9	11878.3	11209.5	9580.5	8063.5	7418.5	7601.0	7721.0	8638.0
45°	12033.6	12187.2	12456.0	12745.7	12427.2	10798.2	9070.0	8274.7	8441.1	8621.9	9532.5
47.5°	12396.9	12571.2	12920.1	13379.3	13461.0	12020.8	10172.5	9271.6	9423.6	9610.9	10430.2
50°	12428.8	12579.2	13120.1	13771.4	14195.4	13195.3	11356.7	10390.1	10532.6	10732.6	11391.8
52.5°	11655.9	11892.8	12836.9	13760.2	14533.1	14177.9	12532.9	11553.5	11713.5	11953.6	12387.2
55°	9047.6	9394.8	12006.3	13331.4	14413.1	14813.2	13651.4	12790.5	12995.3	13246.6	13389.0
57.5°	7793.1	7945.1	9530.9	12550.4	13865.8	14978.0	14595.5	14040.2	14369.9	14645.1	14448.3
60°	7004.1	7130.5	8068.3	11335.9	13145.7	14717.2	15325.2	15205.2	15774.9	16103.0	15531.6
62.5°	6159.2	6279.3	7132.2	9465.3	12224.0	14283.5	15786.0	16280.6	17215.1	17573.5	16552.6
65°	5320.7	5423.1	6240.8	7953.1	11052.7	13849.8	16024.5	17210.3	18548.0	18919.2	17400.7
67.5°	4386.2	4470.9	5243.9	6709.6	9628.4	13256.1	16142.9	17941.6	19708.2	20026.7	17819.9
70°	3165.2	3230.8	4029.4	5306.3	7841.0	12235.2	16095.0	18460.0	20309.9	20564.3	17503.1
72.5°	1496.2	1555.4	2493.1	3445.2	5538.3	10247.7	15123.6	18048.8	19698.6	19572.2	15563.6
75°	798.5	849.7	1432.2	1889.9	2925.1	7024.9	12376.1	15547.6	16541.3	15926.9	11502.3
77.5°	540.9	580.9	886.5	1134.6	1336.2	3334.8	7954.6	10764.7	10356.6	9342.1	5760.8
80°	428.9	470.5	726.5	768.1	646.5	1205.0	3286.9	4983.0	3579.7	2862.8	1638.6
82.5°	329.6	376.1	611.3	556.9	352.1	494.5	956.9	1576.2	917.0	697.7	396.9
85°	201.6	251.2	480.1	355.3	198.4	225.6	324.8	438.5	280.0	233.6	142.4
87.5°	102.4	144.0	243.2	129.7	89.6	52.8	86.4	86.4	73.6	64.0	36.8
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°	4359.0	4359.0	4359.0	4359.0	4359.0	4359.0	4359.0	4359.0	4359.0	4359.0	4359.0
2.5°	4375.0	4407.0	4461.4	4512.6	4552.6	4591.0	4629.4	4650.2	4656.6	4682.2	4696.7
5°	4426.2	4485.4	4591.0	4690.2	4752.6	4791.1	4818.2	4834.2	4837.4	4845.5	4858.2
7.5°	4520.6	4615.0	4762.3	4861.5	4907.8	4904.6	4893.5	4853.5	4837.4	4823.0	4826.2
10°	4653.4	4778.2	4959.1	5027.8	4999.0	4922.3	4823.0	4706.2	4651.9	4599.0	4583.0
12.5°	4818.2	4976.7	5154.3	5151.0	5008.7	4811.9	4581.4	4402.2	4288.6	4206.9	4187.7
15°	5018.3	5200.6	5336.7	5227.9	4915.8	4562.2	4224.5	3990.9	3888.5	3798.9	3789.3
17.5°	5224.7	5419.9	5482.3	5203.9	4682.2	4192.6	3810.1	3626.0	3525.3	3477.2	3491.7
20°	5426.3	5620.0	5568.7	5066.3	4326.9	3773.3	3432.4	3331.7	3310.9	3322.0	3317.2
22.5°	5639.1	5812.0	5586.4	4800.6	3874.1	3344.5	3157.2	3160.4	3206.8	3240.4	3248.4
25°	5856.7	5973.6	5539.9	4416.6	3387.6	3029.2	2982.7	3034.0	3125.2	3190.8	3208.5
27.5°	6066.4	6117.6	5439.2	3941.3	2970.0	2803.6	2811.6	2917.1	3054.8	3146.0	3168.4
30°	6303.2	6245.6	5245.5	3406.9	2680.4	2610.0	2677.2	2800.4	2938.0	3019.5	3038.8
32.5°	6570.5	6356.0	4938.2	2912.3	2475.5	2454.8	2565.2	2645.1	2706.0	2730.0	2742.8
35°	6903.3	6511.2	4544.6	2565.2	2291.5	2341.1	2446.7	2406.7	2382.7	2369.9	2382.7
37.5°	7335.4	6720.9	4083.7	2339.5	2142.7	2259.5	2302.7	2177.9	2083.5	2037.1	2048.3
40°	7855.4	7028.1	3640.5	2165.1	2048.3	2189.1	2113.9	1963.5	1843.5	1777.9	1782.7
42.5°	8433.1	7349.8	3267.6	2033.9	1995.5	2131.5	1974.7	1795.4	1601.8	1581.0	1601.8
45°	9039.6	7681.0	3013.2	1933.0	1969.8	2081.9	1894.6	1605.0	1467.4	1552.2	1597.1
47.5°	9646.1	7985.1	2859.5	1857.8	1957.0	2025.9	1824.2	1499.4	1401.8	1525.0	1582.6
50°	10321.3	8257.1	2790.8	1803.5	1942.7	2003.5	1718.6	1472.2	1333.0	1414.6	1475.4
52.5°	10991.9	8468.3	2739.5	1749.1	1921.9	1985.8	1667.5	1440.2	1249.8	1254.6	1288.2
55°	11660.7	8605.9	2683.6	1677.0	1875.4	1947.5	1662.7	1405.0	1187.4	1164.9	1181.0
57.5°	12374.4	8684.3	2614.8	1597.1	1795.4	1849.8	1657.8	1377.8	1168.2	1131.4	1136.1
60°	13100.9	8799.5	2525.1	1499.4	1688.2	1733.1	1646.7	1368.2	1156.9	1094.5	1099.3
62.5°	13752.2	8839.6	2417.9	1406.6	1550.6	1617.9	1622.6	1360.2	1126.6	1019.4	1019.4
65°	14179.4	8666.8	2230.7	1300.9	1401.8	1499.4	1576.2	1333.0	1072.1	964.9	964.9
67.5°	14161.9	8173.9	1937.9	1164.9	1257.8	1368.2	1509.0	1286.6	1006.6	897.7	902.5
70°	13502.5	7200.9	1566.6	1006.6	1099.3	1227.3	1422.6	1217.8	928.1	824.1	833.7
72.5°	11580.8	5636.0	1137.8	820.9	915.3	1081.8	1310.6	1134.6	848.1	758.5	753.7
75°	8273.1	3566.9	771.3	630.5	712.1	917.0	1171.4	1036.9	774.5	761.7	718.5
77.5°	4226.2	1704.3	510.4	460.8	496.1	723.3	984.1	926.5	785.7	628.8	560.1
80°	1374.6	628.8	321.6	313.6	329.6	481.6	761.7	760.1	595.3	427.2	377.6
82.5°	438.5	270.4	209.6	201.6	193.6	302.5	531.3	601.7	401.7	270.4	268.9
85°	174.5	161.6	123.2	113.6	81.6	142.4	278.4	400.1	299.2	195.3	200.0
87.5°	64.0	64.0	33.6	24.0	17.6	48.0	75.2	120.0	171.2	100.9	99.2
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)