

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: P885347

Luminaire Tested: **NVN-SB6C-830-U-T2**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885347  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB6C-830-U-T2  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

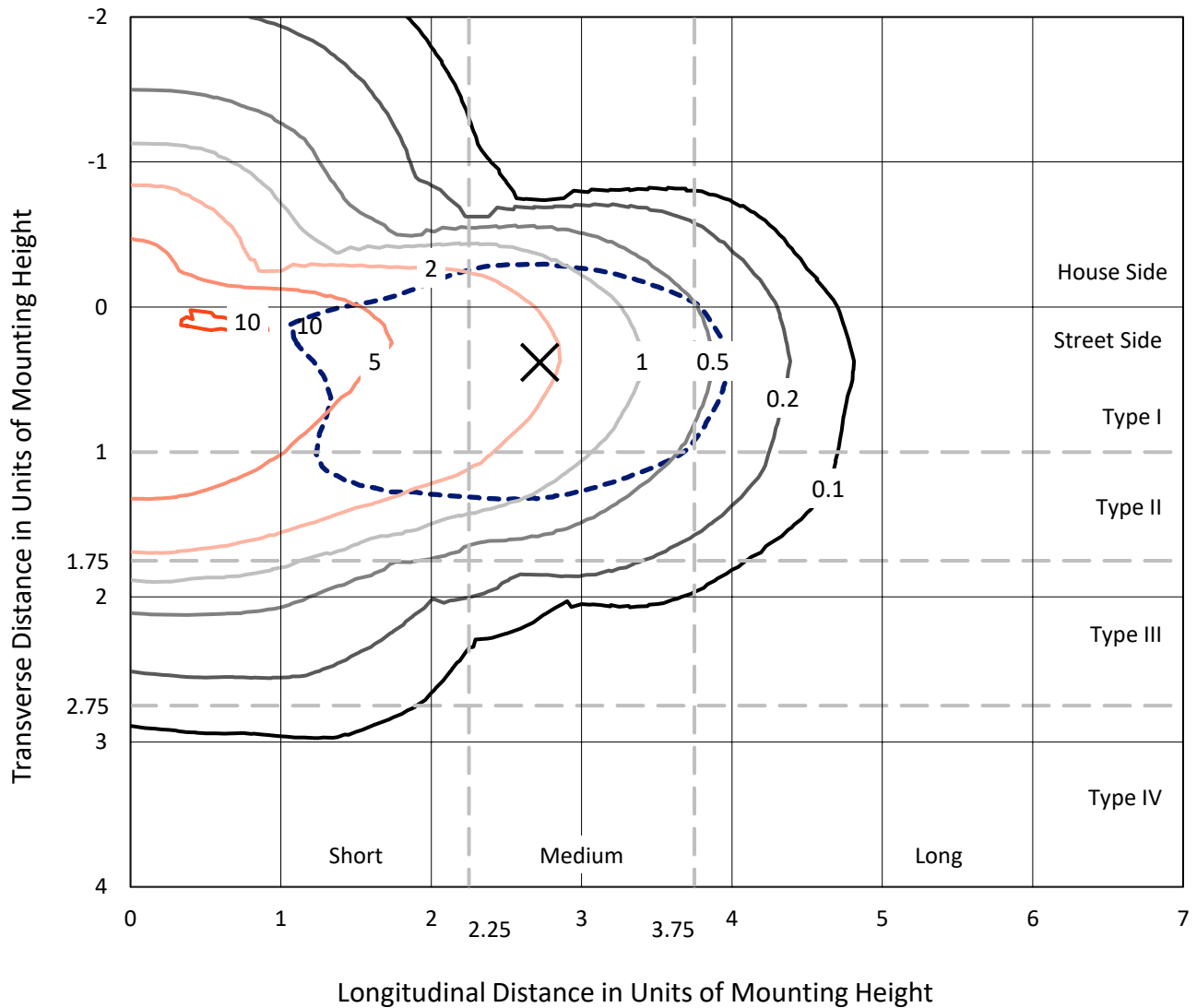
Lumens per Lamp: N/A  
Luminaire Lumens: 39410 lumens  
Efficiency: N/A  
Efficacy: 131.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 300.9  
Input Voltage (V): 120.0  
Input Current (Ain): 2.518  
Voltage Rise (V): NR  
Power Factor: 0.997  
Total Harmonic Distortion (THDi): 6.297  
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

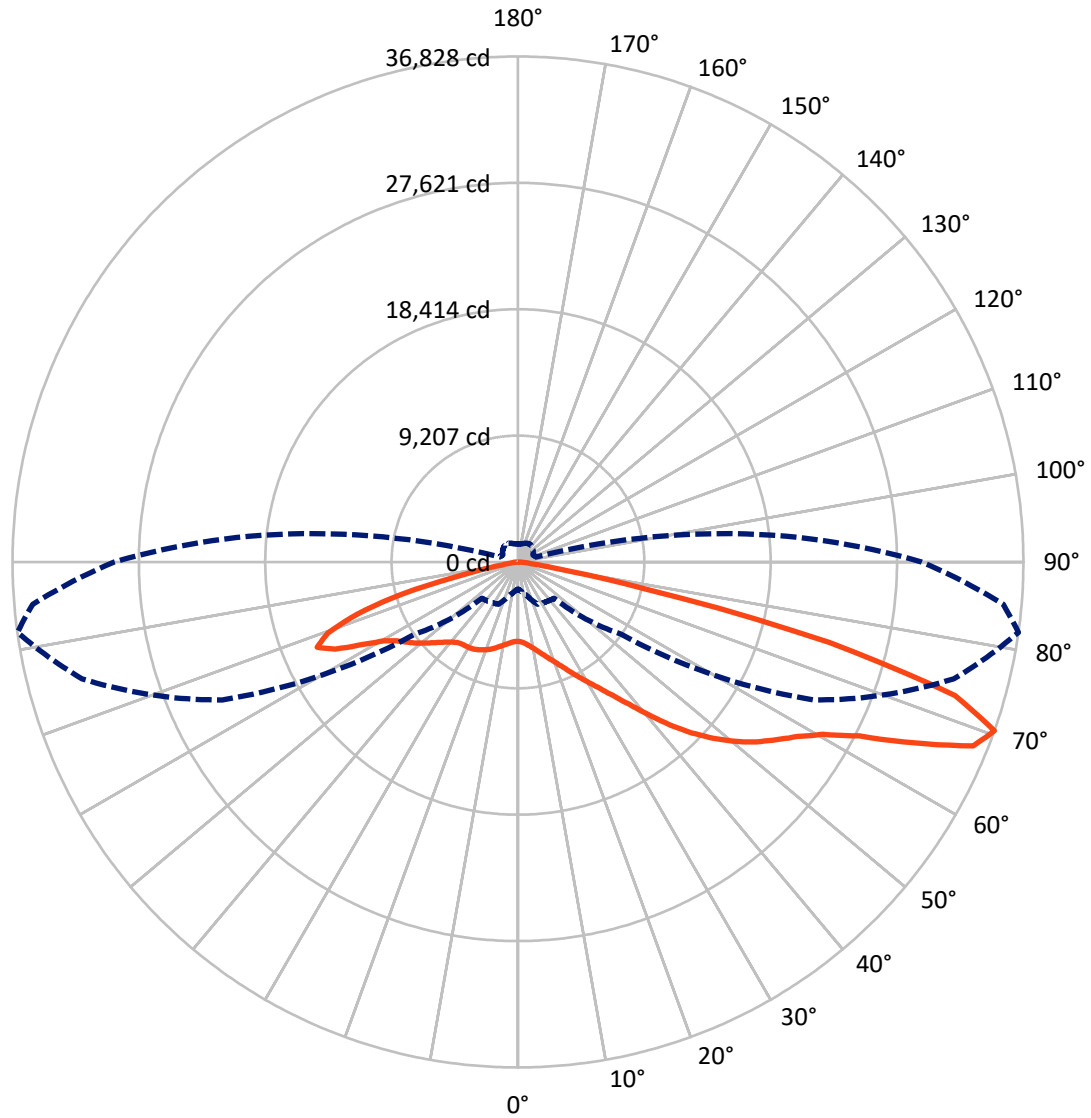
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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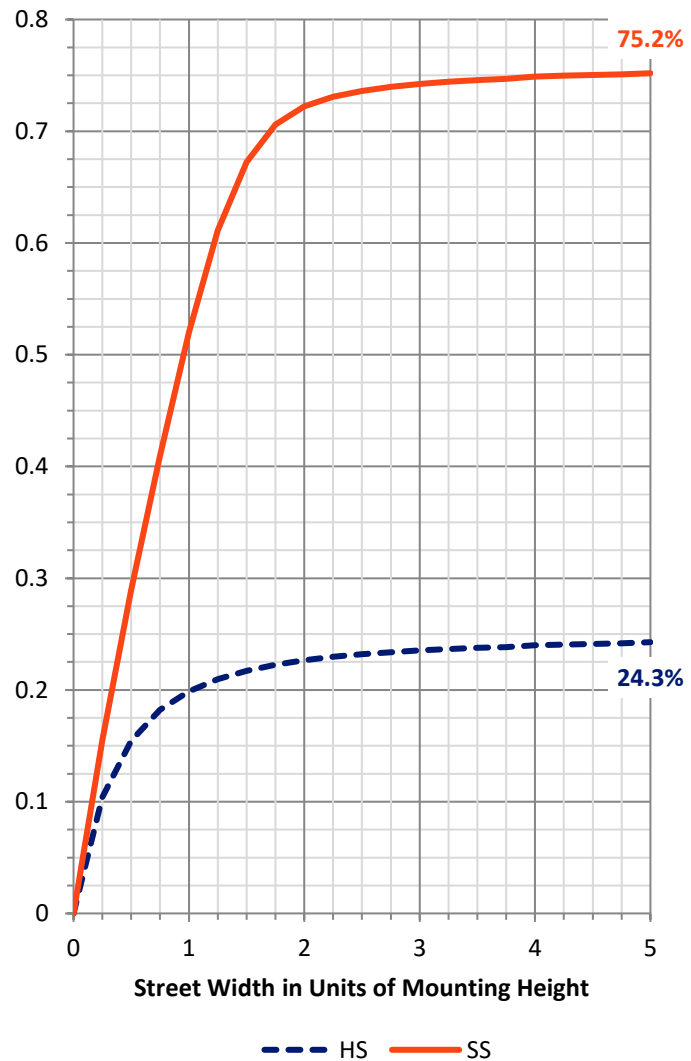
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9715.5	0.0	9715.5
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	29694.5	0.0	29694.5
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	39410.0	0.0	39410.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	545.5	1.4
10°-20°	1567.4	4.0
20°-30°	2622.1	6.7
30°-40°	4096.4	10.4
40°-50°	6523.9	16.6
50°-60°	9078.8	23.0
60°-70°	9496.9	24.1
70°-80°	4963.6	12.6
80°-90°	515.4	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°	39410.0	100.0
0°-180°	39410.0	100.0



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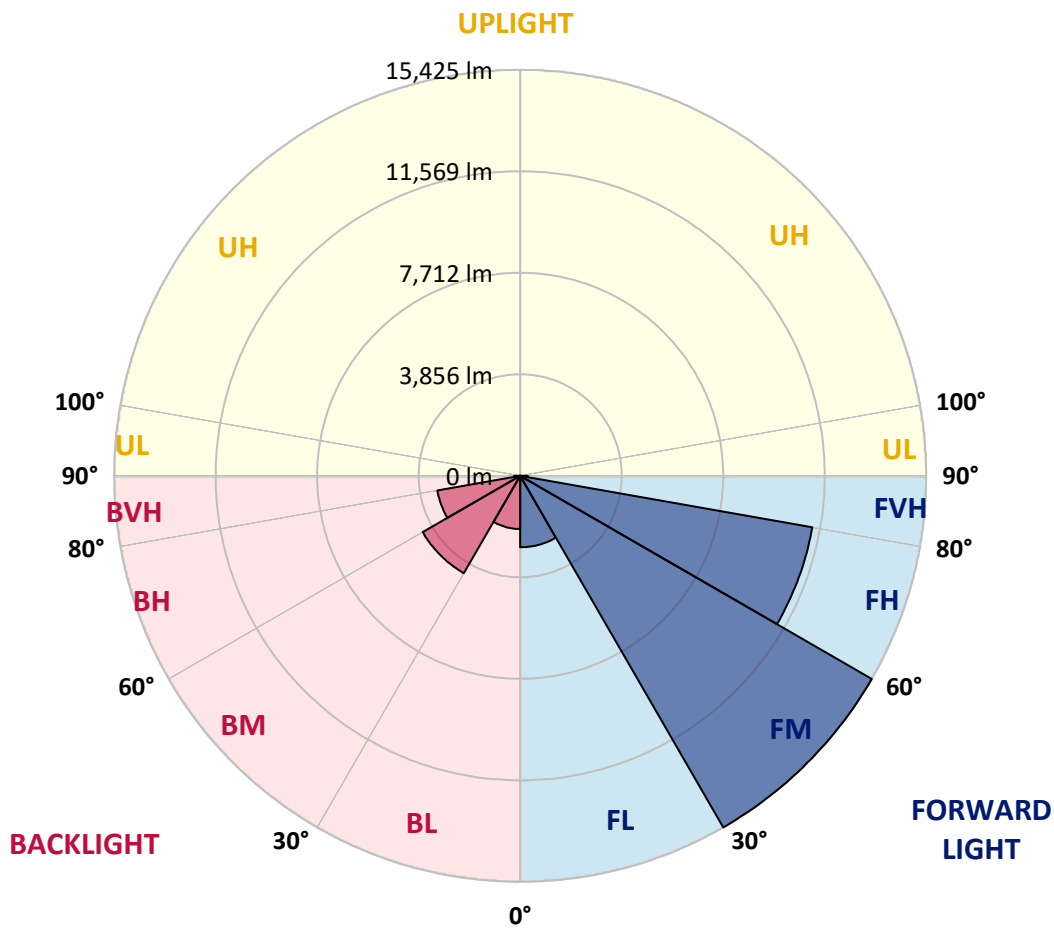
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2713.8	6.9			
FM (30°-60°)	15424.7	39.1			
FH (60°-80°)	11267.4	28.6			G4/12000
FVH (80°-90°)	288.5	0.7			G3/500
BL (0°-30°)	2021.2	5.1	B3/2500		
BM (30°-60°)	4274.4	10.8	B3/5000		
BH (60°-80°)	3193.0	8.1	B4/5000		G4/5000
BVH (80°-90°)	226.9	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	5778.0	5778.0	5778.0	5778.0	5778.0	5778.0	5778.0	5778.0	5778.0	5778.0	5778.0
2.5°	5916.0	5949.5	5939.0	5928.6	5928.6	5913.9	5911.8	5890.9	5874.2	5847.0	5840.7
5°	5991.3	6026.9	6022.7	6031.0	6058.2	6064.5	6070.8	6058.2	6024.8	5991.3	5976.7
7.5°	5924.4	5964.1	5976.7	6026.9	6110.5	6185.8	6242.2	6265.2	6233.9	6185.8	6162.8
10°	5698.5	5742.4	5786.4	5905.6	6054.0	6231.8	6382.4	6472.3	6466.0	6420.0	6380.3
12.5°	5240.6	5286.6	5380.7	5612.8	5884.7	6198.3	6478.6	6666.8	6731.6	6698.1	6629.1
15°	4874.6	4914.3	4985.4	5223.8	5577.2	6054.0	6514.1	6880.1	7045.3	7026.4	6942.8
17.5°	4864.1	4880.9	4924.8	5037.7	5309.6	5828.2	6476.5	7089.2	7405.0	7402.9	7298.3
20°	5048.2	5054.4	5079.5	5102.5	5257.3	5656.7	6380.3	7262.8	7808.6	7808.6	7695.6
22.5°	5303.3	5299.1	5324.2	5303.3	5378.6	5642.1	6319.6	7415.4	8258.2	8291.6	8149.4
25°	5686.0	5665.1	5658.8	5610.7	5625.3	5778.0	6386.5	7589.0	8791.4	8860.4	8682.7
27.5°	6196.2	6162.8	6139.8	6028.9	5991.3	6058.2	6591.5	7798.1	9385.3	9504.5	9278.7
30°	6861.2	6800.6	6767.1	6574.7	6438.8	6449.3	6901.0	8076.2	10006.4	10198.8	9912.3
32.5°	7768.8	7674.7	7584.8	7269.0	7020.2	6938.6	7300.4	8461.0	10679.8	10987.2	10619.1
35°	8785.2	8709.9	8613.7	8126.4	7743.7	7555.5	7839.9	8998.5	11468.2	11955.4	11476.5
37.5°	9763.8	9699.0	9745.0	9088.4	8594.9	8320.9	8546.8	9719.9	12440.6	13160.0	12551.4
40°	10776.0	10725.8	10732.1	10104.7	9529.6	9222.2	9404.1	10625.4	13555.2	14592.4	13843.8
42.5°	11876.0	11838.3	11712.8	11156.6	10510.4	10223.9	10391.2	11671.0	14751.4	16223.6	15261.6
45°	13107.7	13084.7	12967.6	12329.7	11589.5	11267.4	11493.3	12825.4	15953.8	17758.5	16685.7
47.5°	14172.1	14190.9	14176.3	13638.8	12871.4	12398.8	12668.5	14029.9	17072.6	19201.4	18051.3
50°	14684.4	14782.7	14927.0	14759.7	14282.9	13802.0	13854.2	15192.6	18139.1	20554.5	19360.4
52.5°	14416.8	14602.9	14996.0	15263.7	15447.7	15347.4	15207.2	16346.9	19142.9	21775.7	20598.4
55°	13419.3	13680.7	14333.1	14979.3	15918.3	16648.1	16832.1	17626.8	20121.6	22850.6	21769.4
57.5°	11602.0	12026.5	12612.1	13919.1	15500.0	17277.5	18726.7	19402.2	21158.8	23998.7	22994.9
60°	8486.1	9054.9	9782.7	11727.5	14036.2	16940.8	20339.1	22129.1	22633.1	25485.5	24590.5
62.5°	5430.9	5782.2	6451.4	8283.3	10937.0	15215.6	20832.6	25537.8	25132.1	27923.9	26982.8
65°	3718.2	3944.0	4556.7	5585.6	7070.4	11326.0	19510.9	28093.2	29101.2	31788.4	31073.2
67.5°	2701.8	2873.3	3396.1	4297.4	4606.9	6702.3	15140.3	27976.1	32959.5	35770.1	34657.5
70°	1969.9	2091.2	2530.4	3396.1	3544.6	3728.6	9172.0	23781.2	32875.8	36828.2	35496.1
72.5°	1459.7	1543.3	1838.2	2634.9	2869.1	2517.8	4540.0	17283.8	28250.1	33310.8	32242.2
75°	1056.1	1118.8	1336.3	2015.9	2296.1	1917.6	2264.8	10100.5	19705.4	23431.9	23620.2
77.5°	807.2	855.3	997.5	1476.4	1838.2	1438.7	1405.3	4646.7	9343.5	9389.5	9916.5
80°	648.3	679.6	757.0	1039.3	1409.5	1077.0	915.9	1875.8	2952.8	2499.0	2622.4
82.5°	476.8	529.1	639.9	729.8	1008.0	742.4	558.4	947.3	1123.0	966.1	974.5
85°	271.9	307.4	386.9	522.8	644.1	453.8	320.0	420.3	522.8	428.7	382.7
87.5°	96.2	125.5	135.9	204.9	280.2	188.2	123.4	121.3	171.5	127.6	106.7
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°	5778.0	5778.0	5778.0	5778.0	5778.0	5778.0	5778.0	5778.0	5778.0	5778.0	5778.0
2.5°	5819.8	5809.4	5767.5	5711.1	5652.5	5596.1	5577.2	5537.5	5510.3	5495.7	5512.4
5°	5936.9	5903.5	5805.2	5679.7	5548.0	5405.8	5305.4	5213.4	5146.5	5083.7	5108.8
7.5°	6104.2	6045.7	5876.3	5656.7	5422.5	5186.2	5010.5	4876.7	4786.8	4728.2	4740.8
10°	6298.7	6208.8	5949.5	5621.2	5259.4	4920.6	4713.6	4598.6	4542.1	4510.7	4519.1
12.5°	6522.5	6394.9	6024.8	5539.6	5010.5	4623.7	4481.5	4448.0	4450.1	4452.2	4456.4
15°	6798.5	6620.8	6085.4	5361.8	4686.4	4395.7	4370.6	4425.0	4481.5	4508.6	4506.5
17.5°	7110.1	6859.2	6095.9	5069.1	4368.5	4249.3	4328.8	4445.9	4531.6	4569.3	4577.6
20°	7444.7	7101.7	6020.6	4655.0	4107.1	4130.1	4272.3	4422.9	4517.0	4565.1	4577.6
22.5°	7827.4	7361.0	5840.7	4220.1	3893.8	4000.5	4167.8	4314.2	4412.4	4460.5	4473.1
25°	8264.4	7651.7	5558.4	3854.1	3709.8	3854.1	4021.4	4142.7	4222.1	4266.1	4278.6
27.5°	8749.6	7954.9	5182.0	3563.4	3548.8	3703.5	3841.5	3935.6	3977.5	4010.9	4023.5
30°	9236.9	8231.0	4726.1	3343.8	3408.7	3555.0	3653.3	3695.2	3707.7	3714.0	3728.6
32.5°	9763.8	8469.4	4247.2	3161.9	3274.8	3410.8	3469.3	3488.1	3429.6	3389.8	3402.4
35°	10401.7	8724.5	3778.8	3017.6	3143.1	3260.2	3279.0	3262.3	3193.3	3111.7	3115.9
37.5°	11190.0	9042.4	3404.5	2915.1	3019.7	3097.1	3074.1	3069.9	3076.2	2980.0	2986.2
40°	12156.2	9456.4	3130.5	2835.7	2919.3	2936.1	2871.2	2906.8	2938.1	2791.8	2795.9
42.5°	13229.0	9956.2	2957.0	2781.3	2835.7	2795.9	2695.6	2735.3	2731.1	2538.7	2536.6
45°	14322.7	10499.9	2896.3	2741.6	2758.3	2678.8	2568.0	2578.5	2490.6	2317.1	2323.3
47.5°	15410.1	11083.4	2934.0	2708.1	2662.1	2572.2	2486.4	2440.4	2310.8	2181.1	2181.1
50°	16476.6	11696.1	3072.0	2641.2	2530.4	2478.1	2415.3	2333.8	2195.8	2084.9	2076.6
52.5°	17465.7	12313.0	3226.7	2530.4	2365.2	2396.5	2356.8	2262.7	2126.8	2013.8	2015.9
55°	18402.6	12929.9	3287.4	2377.7	2210.4	2325.4	2302.4	2128.8	1965.7	1873.7	1865.4
57.5°	19423.1	13672.3	3220.5	2183.2	2084.9	2243.9	2156.0	1963.6	1869.5	1800.5	1794.3
60°	20836.8	14837.1	3076.2	1942.7	1965.7	2122.6	1972.0	1892.5	1790.1	1712.7	1708.5
62.5°	23185.2	17009.9	2844.0	1704.3	1825.6	1942.7	1884.2	1804.7	1700.1	1624.9	1624.9
65°	26656.6	20029.6	2407.0	1518.2	1668.8	1767.1	1790.1	1710.6	1601.9	1522.4	1526.6
67.5°	29584.3	21924.2	1821.4	1363.5	1507.8	1624.9	1689.7	1612.3	1497.3	1419.9	1422.0
70°	29423.3	20548.2	1390.7	1210.8	1365.6	1484.8	1568.4	1507.8	1384.4	1311.2	1317.5
72.5°	26133.8	17189.7	1125.1	1056.1	1221.3	1338.4	1438.7	1392.7	1267.3	1196.2	1196.2
75°	19199.4	12202.2	899.2	899.2	1041.4	1185.7	1296.5	1267.3	1152.3	1102.1	1087.4
77.5°	8093.0	5119.3	704.7	746.6	865.8	1018.4	1156.4	1166.9	1066.5	1129.3	1024.7
80°	2151.8	1411.6	537.4	587.6	679.6	840.7	1005.9	1001.7	892.9	834.4	775.8
82.5°	819.8	556.3	382.7	414.1	491.4	644.1	796.7	821.8	713.1	616.9	616.9
85°	315.8	238.4	236.3	248.9	286.5	426.6	602.3	623.2	537.4	455.9	470.5
87.5°	81.6	71.1	87.8	83.6	131.7	227.9	345.0	357.6	328.3	190.3	271.9
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)