

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: P969217

Luminaire Tested: **NVN-SB5D-722-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P969217  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB5D-722-U-T2-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

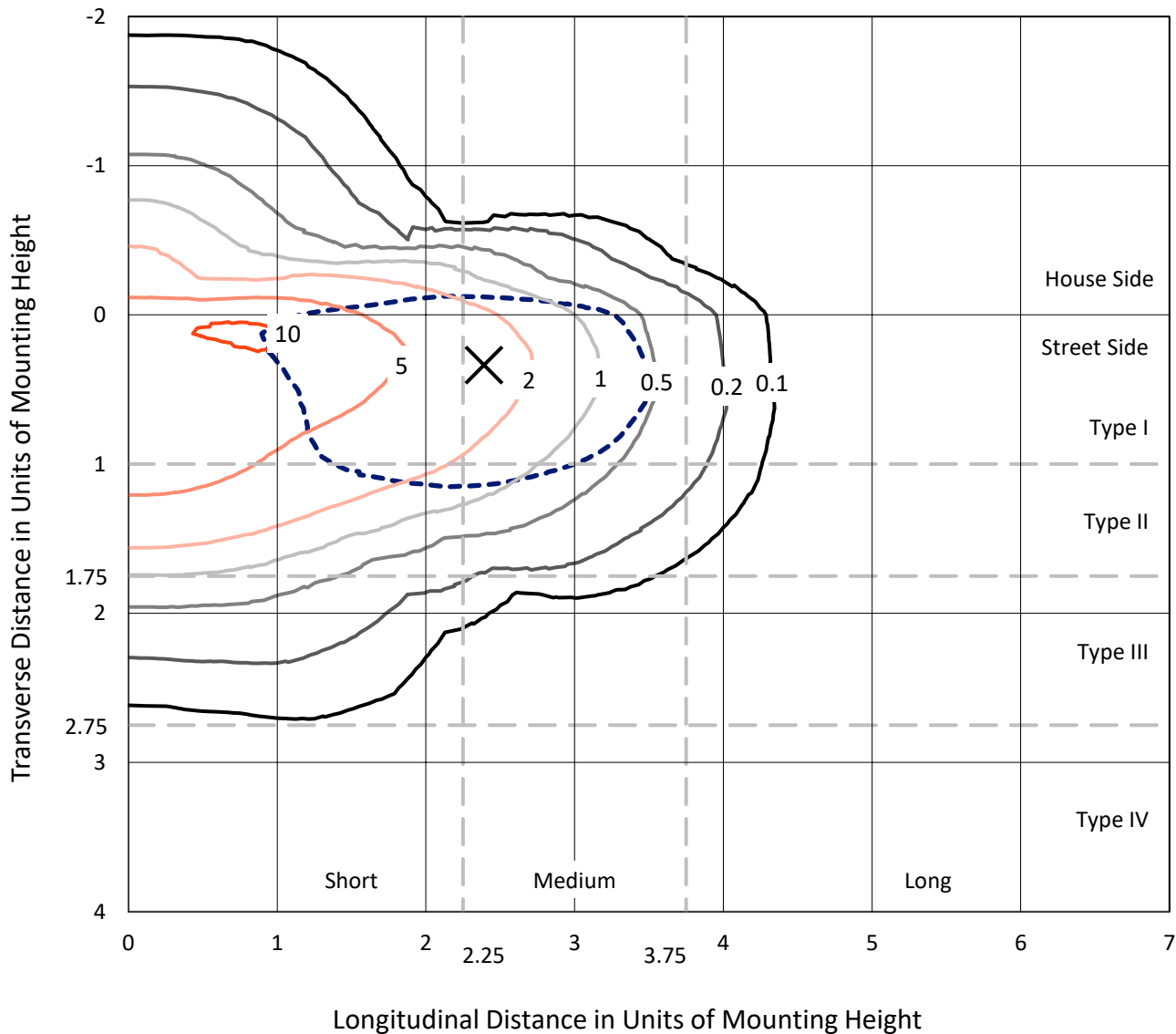
Lumens per Lamp: N/A  
Luminaire Lumens: 31783.2 lumens  
Efficiency: N/A  
Efficacy: 87.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): 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

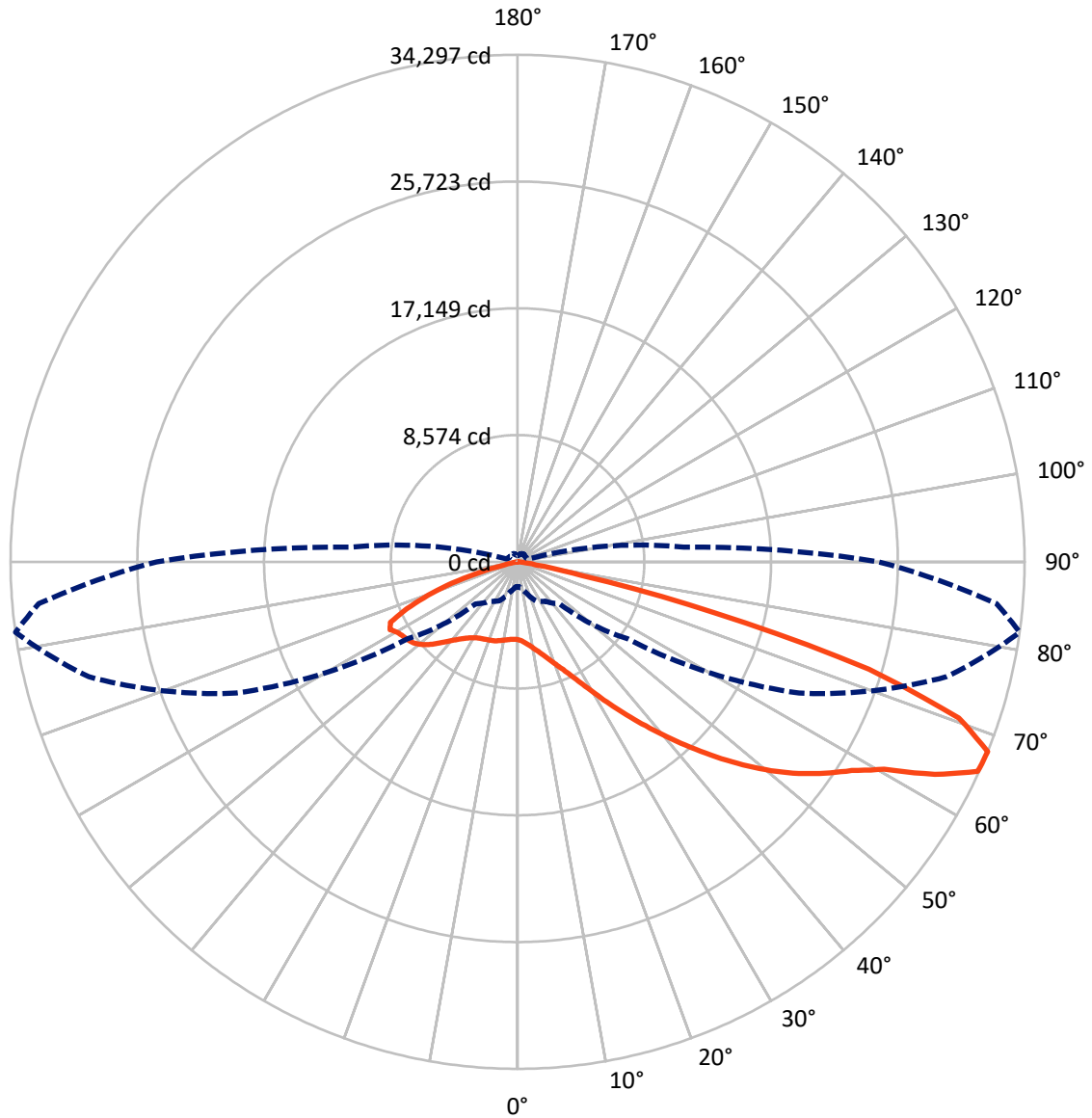
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 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
<b>House Side</b>	Lumens	5757.2	0.0	5757.2
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	26026.0	0.0	26026.0
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	31783.2	0.0	31783.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	469.1	1.5
10°-20°	1219.0	3.8
20°-30°	1952.5	6.1
30°-40°	3452.6	10.9
40°-50°	6049.3	19.0
50°-60°	8068.0	25.4
60°-70°	7510.9	23.6
70°-80°	2882.7	9.1
80°-90°	179.0	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°	31783.2	100.0
0°-180°	31783.2	100.0

**Coefficient of Utilization**



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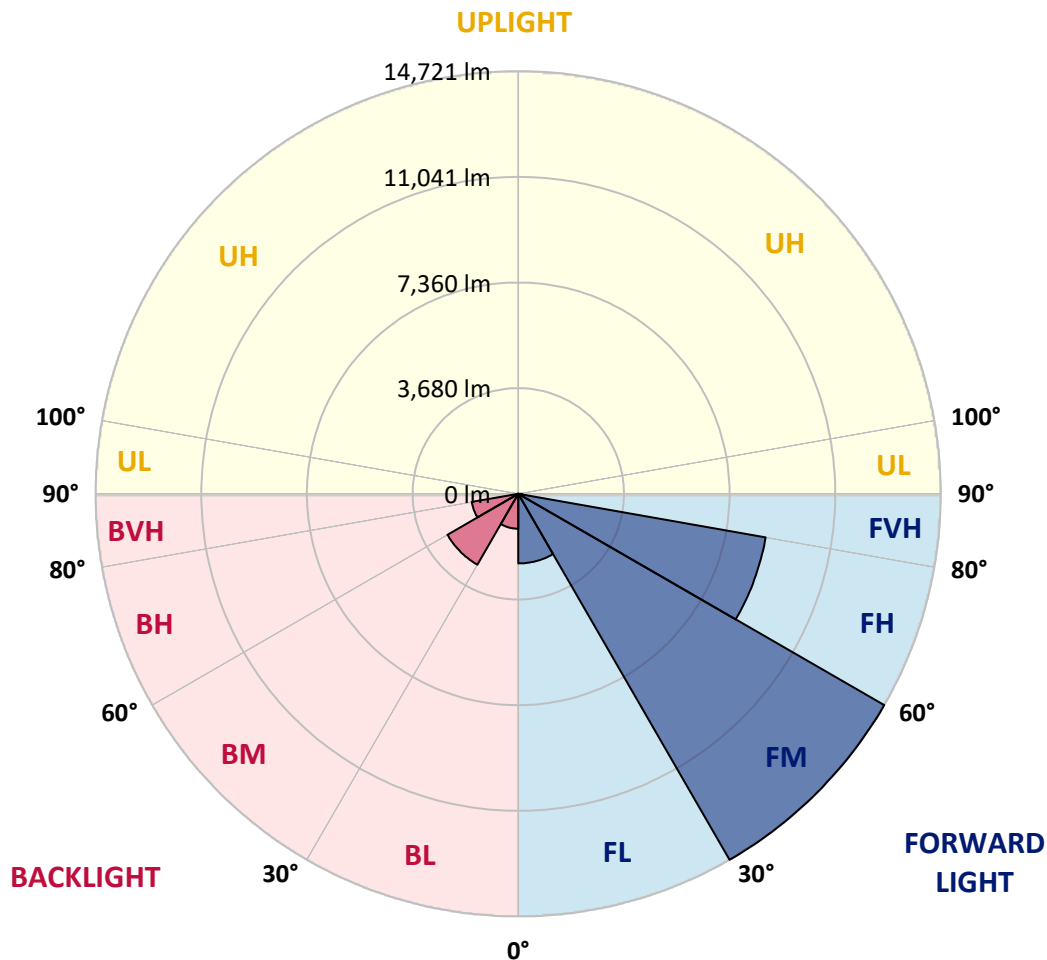
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2424.7	7.6			
FM (30°-60°)	14720.7	46.3			
FH (60°-80°)	8750.4	27.5			G4/12000
FVH (80°-90°)	130.2	0.4			G2/225
BL (0°-30°)	1215.9	3.8	B3/2500		
BM (30°-60°)	2849.2	9.0	B3/5000		
BH (60°-80°)	1643.2	5.2	B3/2500		G3/2500
BVH (80°-90°)	48.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	5265.4	5265.4	5265.4	5265.4	5265.4	5265.4	5265.4	5265.4	5265.4	5265.4	5265.4
2.5°	5565.1	5597.2	5578.9	5569.7	5553.8	5530.8	5512.6	5455.4	5395.8	5357.0	5343.2
5°	5677.3	5709.4	5707.0	5716.2	5727.6	5734.5	5730.0	5665.9	5581.2	5514.8	5476.0
7.5°	5581.2	5617.8	5647.5	5693.4	5773.4	5858.1	5899.3	5885.5	5798.5	5707.0	5659.0
10°	5308.9	5347.7	5418.8	5526.3	5695.6	5878.7	6032.0	6103.0	6048.0	5947.4	5880.9
12.5°	4810.0	4849.0	4988.5	5222.0	5505.7	5823.7	6116.7	6306.6	6320.4	6219.6	6141.8
15°	4249.3	4288.3	4437.0	4730.0	5162.4	5672.8	6162.4	6521.7	6642.9	6556.0	6462.2
17.5°	3901.6	3935.9	4048.0	4283.7	4734.5	5370.7	6146.4	6750.5	7027.4	6958.7	6846.6
20°	3796.3	3826.0	3878.7	4043.4	4418.8	5057.1	6041.1	6965.6	7441.6	7402.7	7276.8
22.5°	3908.4	3935.9	3951.9	4025.2	4260.8	4851.2	5908.4	7185.2	7922.1	7926.7	7773.4
25°	4167.0	4194.5	4176.2	4222.0	4324.9	4787.2	5858.1	7443.9	8526.3	8576.6	8402.6
27.5°	4592.6	4595.0	4551.4	4549.2	4565.1	4883.2	5910.7	7720.7	9288.2	9382.0	9167.0
30°	5446.1	5411.9	5244.8	5064.0	4981.6	5171.5	6057.1	8048.0	10187.6	10354.7	10084.6
32.5°	6761.9	6711.6	6405.0	5972.5	5537.7	5636.1	6320.4	8421.0	11167.0	11469.0	11139.5
35°	8189.9	8176.1	7855.8	7212.7	6453.0	6297.4	6748.2	8910.6	12235.6	12716.2	12324.8
37.5°	9517.1	9510.3	9327.2	8569.7	7645.3	7219.6	7434.7	9551.4	13379.7	14075.4	13613.1
40°	10729.9	10750.5	10567.4	9890.1	8958.7	8402.6	8368.3	10343.2	14652.1	15555.9	15006.7
42.5°	11778.0	11800.8	11615.5	11114.3	10256.3	9711.6	9514.8	11313.4	15894.6	17146.3	16496.5
45°	12489.6	12631.5	12604.0	12203.5	11588.0	11022.7	10892.4	12530.8	17311.0	18832.8	18070.8
47.5°	12690.9	12821.4	13027.3	13082.3	12707.0	12151.0	12306.6	13997.6	18743.6	20521.5	19654.3
50°	12194.4	12315.7	12743.6	13313.4	13574.3	13402.6	13681.8	15569.6	20210.3	22205.8	21208.1
52.5°	11215.0	11338.6	11878.6	12780.2	13844.3	14384.3	15061.7	17118.8	21631.4	23800.7	22679.5
55°	9798.6	9929.0	10622.4	11642.9	13329.4	14789.3	16212.6	18665.8	22933.5	25235.5	24006.6
57.5°	7871.8	7967.9	8688.7	10116.6	12034.2	14386.6	17061.6	20354.6	24160.0	26645.1	25322.4
60°	5130.4	5215.1	6052.6	7645.3	9887.8	13041.1	17231.0	22237.8	25789.2	28478.0	27095.9
62.5°	3411.9	3469.1	3965.6	5134.9	6963.3	10457.6	16240.1	23741.3	28178.3	31667.9	30137.0
65°	2340.9	2398.2	2894.7	3709.4	4498.8	6917.5	13391.2	23542.1	30343.0	34201.1	32391.0
67.5°	1670.4	1718.5	2139.6	2908.4	3256.2	4018.3	9077.7	20997.5	30031.8	34297.2	32512.3
70°	1196.8	1224.3	1572.0	2265.5	2588.1	2414.2	5048.0	16059.4	26294.9	31670.2	30036.4
72.5°	837.5	846.6	1091.5	1725.4	2084.6	1762.0	2402.7	10707.0	19887.7	24857.9	23285.8
75°	567.5	578.9	734.5	1265.5	1672.8	1345.5	1272.3	5741.3	11675.0	13759.6	12334.0
77.5°	347.8	352.4	473.7	865.0	1251.7	1025.2	819.2	2432.4	4517.1	4434.8	3780.3
80°	196.8	196.8	302.1	537.7	853.5	661.3	574.4	1034.3	1430.2	1256.2	1107.5
82.5°	109.9	112.1	219.7	334.0	565.2	391.3	315.8	478.3	617.9	546.9	476.0
85°	45.7	50.3	135.0	157.8	270.0	194.5	128.1	201.4	228.8	203.7	148.7
87.5°	4.6	6.9	41.2	29.7	32.1	38.9	18.3	38.9	32.1	32.1	22.9
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°	5265.4	5265.4	5265.4	5265.4	5265.4	5265.4	5265.4	5265.4	5265.4	5265.4	5265.4
2.5°	5299.8	5265.4	5178.4	5077.7	4945.0	4880.9	4794.0	4734.5	4684.1	4688.8	4642.9
5°	5402.7	5315.8	5121.2	4878.7	4576.6	4361.5	4132.7	3974.7	3846.6	3819.2	3757.4
7.5°	5544.5	5407.3	5066.3	4629.2	4119.0	3732.2	3386.7	3164.7	3006.8	2956.5	2906.2
10°	5727.6	5528.5	4995.3	4315.8	3581.2	3089.2	2718.5	2544.6	2437.0	2400.4	2373.0
12.5°	5940.5	5668.1	4901.5	3933.6	3027.4	2553.8	2318.0	2231.1	2196.8	2185.3	2178.4
15°	6208.2	5842.1	4759.7	3480.5	2558.3	2226.5	2125.8	2114.4	2119.0	2114.4	2112.1
17.5°	6526.3	6032.0	4528.6	3013.7	2242.5	2059.4	2022.8	2032.1	2043.4	2041.2	2036.6
20°	6874.1	6219.6	4233.4	2599.5	2027.4	1940.5	1919.9	1929.0	1938.2	1933.7	1931.3
22.5°	7269.9	6421.0	3906.2	2276.8	1883.2	1830.6	1807.8	1810.0	1810.0	1800.9	1796.3
25°	7743.7	6642.9	3562.9	2048.1	1773.5	1732.2	1704.8	1695.7	1681.9	1654.5	1649.8
27.5°	8308.9	6878.7	3233.4	1887.8	1686.5	1647.6	1615.5	1592.6	1558.3	1512.6	1508.0
30°	8945.0	7164.6	2954.3	1787.2	1617.9	1578.9	1542.3	1508.0	1457.7	1400.5	1395.8
32.5°	9693.3	7471.3	2750.6	1720.8	1556.1	1514.8	1471.4	1430.2	1375.2	1318.0	1320.4
35°	10585.7	7842.1	2631.6	1675.1	1508.0	1453.0	1405.1	1359.3	1318.0	1267.7	1263.1
37.5°	11553.7	8235.7	2595.0	1652.2	1476.0	1391.3	1336.4	1304.3	1299.8	1270.0	1267.7
40°	12613.1	8702.5	2622.4	1638.5	1441.7	1331.8	1272.3	1265.5	1276.8	1224.3	1226.5
42.5°	13734.4	9256.3	2668.2	1622.4	1393.6	1272.3	1215.1	1215.1	1205.9	1132.7	1132.7
45°	14947.3	9894.6	2713.9	1583.5	1336.4	1212.8	1169.3	1153.3	1114.4	1043.4	1041.2
47.5°	16169.2	10544.5	2748.2	1512.6	1267.7	1162.5	1123.6	1086.9	1029.7	965.7	963.4
50°	17329.4	11128.0	2711.6	1407.3	1189.9	1114.4	1073.2	1022.8	961.0	917.6	910.7
52.5°	18365.9	11633.7	2556.0	1283.7	1107.5	1064.1	1027.5	974.8	924.4	878.7	874.1
55°	19267.5	12043.3	2281.4	1167.1	1034.3	1020.6	984.0	917.6	849.0	810.1	805.4
57.5°	20132.5	12354.6	1938.2	1070.9	967.9	972.5	917.6	858.1	794.1	752.9	748.2
60°	21283.6	12771.1	1590.4	981.6	897.0	910.7	851.3	807.8	727.6	675.1	668.2
62.5°	23123.4	13418.7	1263.1	871.9	814.7	819.2	794.1	741.4	645.3	583.5	578.9
65°	24583.3	13180.7	995.4	752.9	720.8	727.6	727.6	670.5	567.5	496.6	489.7
67.5°	24418.6	11286.0	794.1	636.1	631.6	636.1	652.2	604.1	503.4	446.2	437.1
70°	22494.0	8977.1	636.1	528.6	549.2	537.7	583.5	551.4	453.0	395.9	389.0
72.5°	18354.6	6466.7	485.1	437.1	421.1	439.3	526.3	496.6	377.6	313.5	306.7
75°	10725.3	3450.8	361.5	345.5	304.3	366.1	466.8	423.3	288.3	231.1	224.3
77.5°	3492.0	1203.7	265.5	254.0	226.5	295.2	398.2	357.0	235.6	183.1	176.2
80°	935.9	363.9	180.8	167.1	146.5	219.7	315.8	283.7	169.3	119.0	116.7
82.5°	375.3	153.3	105.3	93.8	80.1	151.0	249.4	228.8	125.9	75.5	75.5
85°	121.3	50.3	38.9	29.7	36.6	93.8	148.7	155.6	89.3	38.9	29.7
87.5°	16.0	6.9	6.9	9.1	6.9	16.0	45.7	43.5	25.2	4.6	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)