

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: P969459

Luminaire Tested: **NVN-SB5D-830-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969459
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB5D-830-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46929.6 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - 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



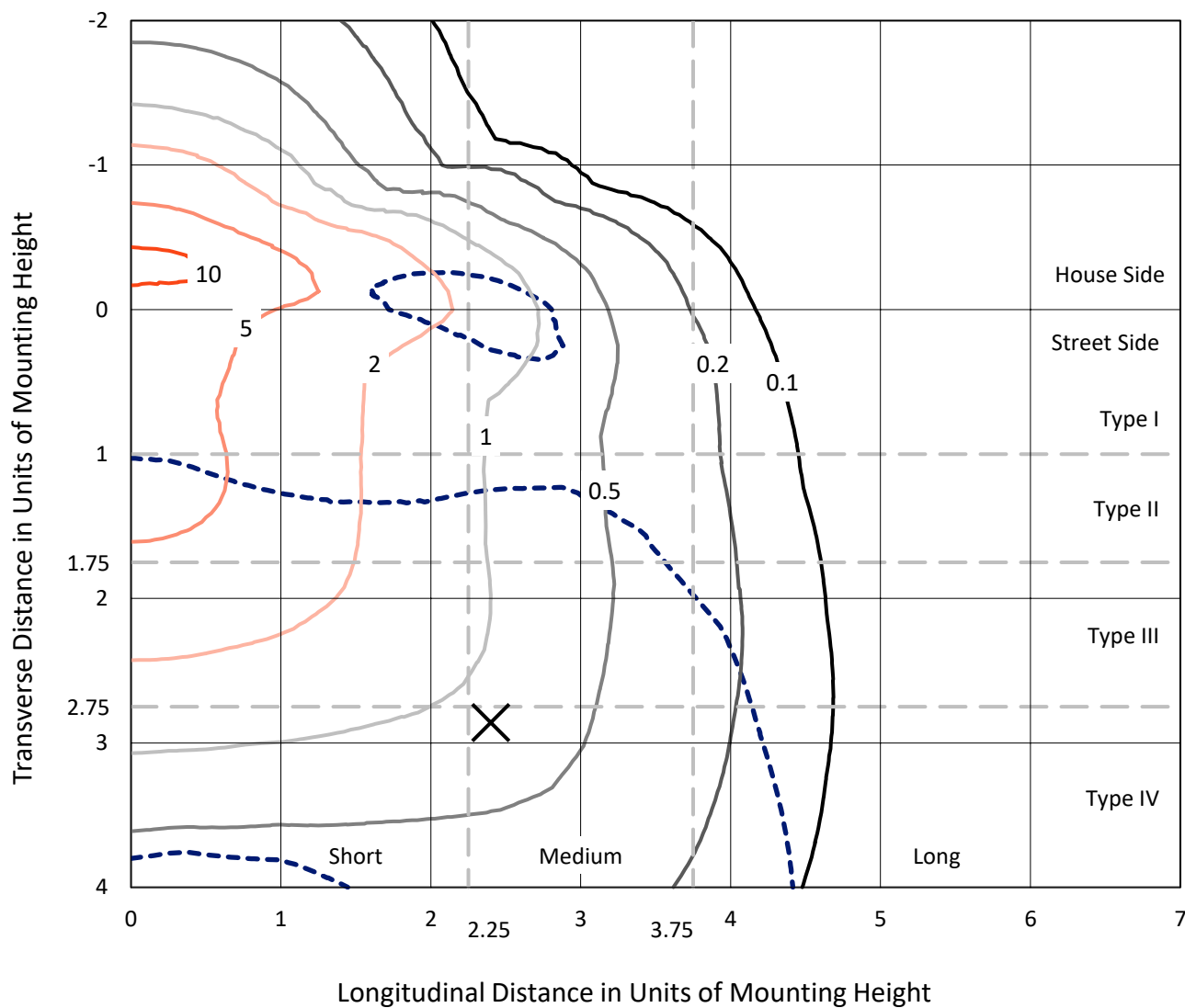
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Iso-Footcandle Lines of Horizontal Illumination

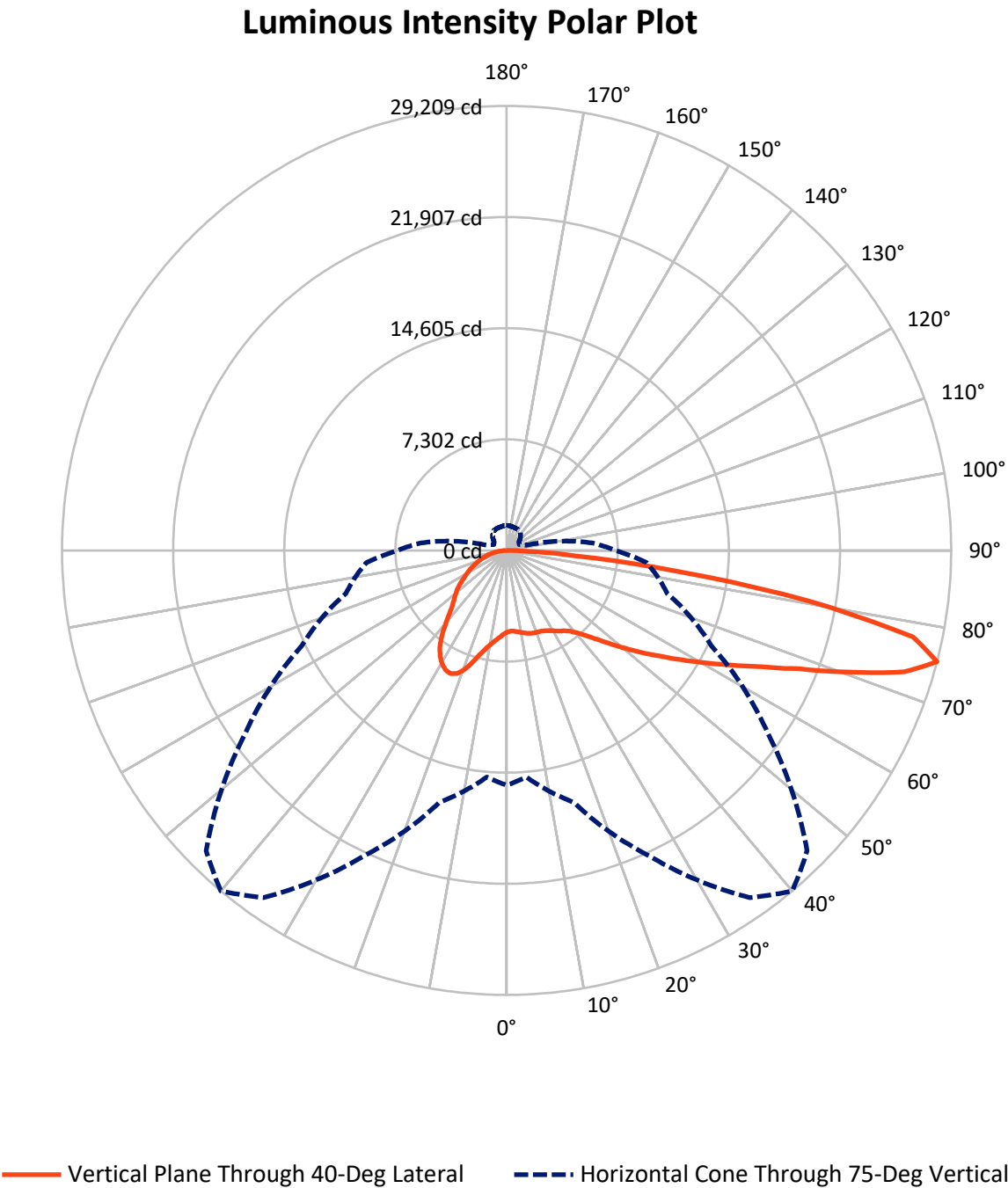
× Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
Type IV - Medium - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14540.4	0.0	14540.4
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	32389.3	0.0	32389.3
	% Fixture	69.0	0.0	69.0
Total	Lumens	46929.6	0.0	46929.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.7	1.1
10°-20°	1798.5	3.8
20°-30°	3283.9	7.0
30°-40°	4657.5	9.9
40°-50°	6289.0	13.4
50°-60°	8460.5	18.0
60°-70°	10738.3	22.9
70°-80°	9745.6	20.8
80°-90°	1420.6	3.0
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°	46929.6	100.0
0°-180°	46929.6	100.0

Coefficient of Utilization



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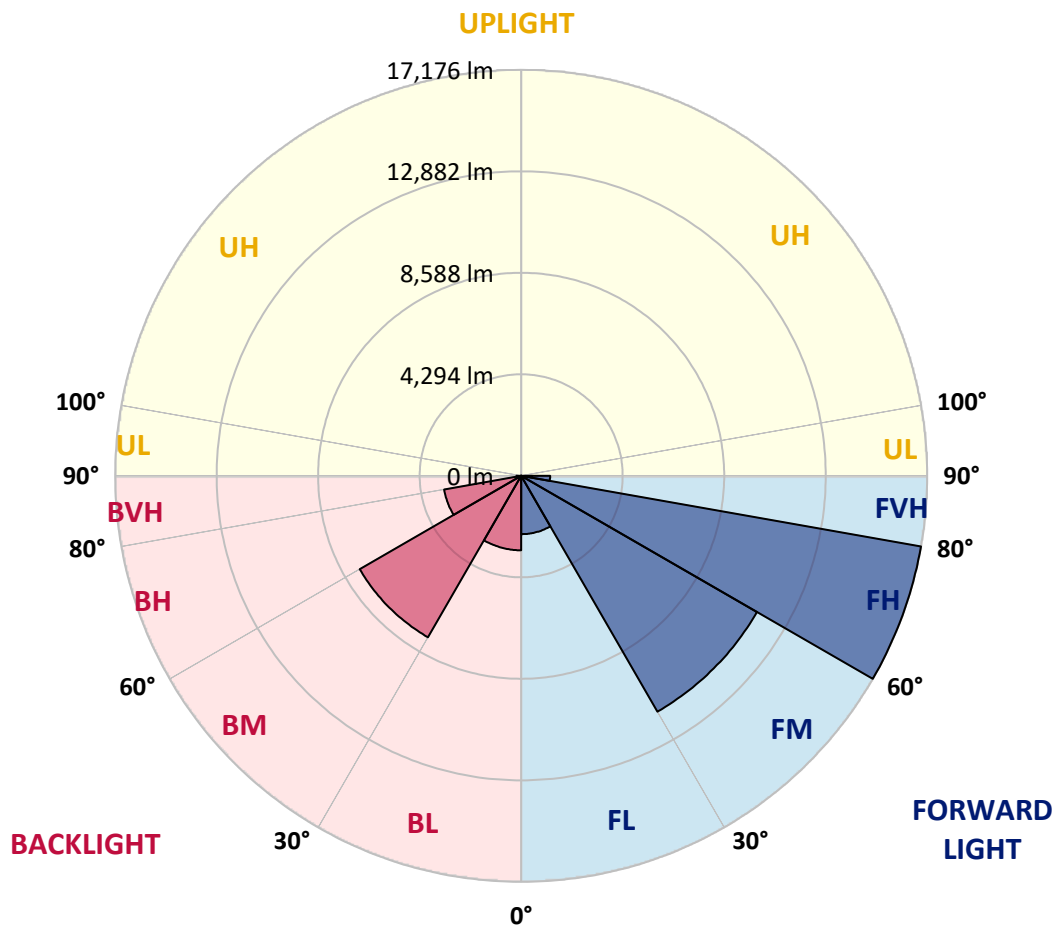
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2468.5	5.3			
FM	(30°-60°)	11520.2	24.5			
FH	(60°-80°)	17175.5	36.6			G5
FVH	(80°-90°)	1225.0	2.6			G5
BL	(0°-30°)	3149.6	6.7	B4/5000		
BM	(30°-60°)	7886.8	16.8	B4/8500		
BH	(60°-80°)	3308.4	7.0	B4/5000		G4/5000
BVH	(80°-90°)	195.6	0.4			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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	5366.5	5366.5	5366.5	5366.5	5366.5	5366.5	5366.5	5366.5	5366.5	5366.5	5366.5
2.5°	5284.3	5314.2	5306.7	5296.8	5296.8	5299.2	5296.8	5314.2	5331.6	5349.1	5376.4
5°	5339.1	5369.0	5354.0	5341.6	5331.6	5329.2	5321.7	5319.1	5329.2	5351.5	5388.8
7.5°	5446.1	5476.0	5453.6	5431.2	5411.3	5401.3	5391.4	5376.4	5369.0	5381.4	5433.6
10°	5565.5	5595.5	5568.1	5528.2	5495.9	5483.4	5473.5	5458.5	5448.6	5456.1	5513.3
12.5°	5685.1	5714.9	5677.6	5622.8	5580.5	5573.0	5560.6	5555.6	5553.1	5550.7	5607.9
15°	5797.1	5822.0	5774.6	5710.0	5665.2	5652.7	5640.3	5647.7	5660.2	5675.1	5739.8
17.5°	5884.2	5909.1	5839.4	5754.8	5712.4	5707.5	5700.0	5724.9	5759.8	5797.1	5876.7
20°	5963.9	5988.8	5899.1	5784.6	5734.9	5734.9	5737.3	5789.6	5839.4	5894.2	6003.6
22.5°	6075.9	6095.8	5986.2	5829.5	5757.2	5762.2	5782.1	5834.4	5896.6	5971.3	6123.1
25°	6242.7	6257.5	6123.1	5914.0	5831.9	5846.9	5864.3	5889.1	5948.9	6036.0	6240.1
27.5°	6511.4	6523.9	6347.2	6063.4	5939.0	5963.9	5988.8	5971.3	5998.7	6073.3	6334.7
30°	6889.7	6897.2	6673.3	6297.4	6120.7	6133.1	6138.1	6065.8	6013.7	6073.3	6401.9
32.5°	7337.8	7335.3	7069.0	6581.1	6327.2	6314.8	6272.5	6130.6	6008.7	6060.9	6461.7
35°	8032.3	8004.9	7661.4	6979.4	6561.2	6484.0	6384.5	6202.8	6033.6	6048.5	6514.0
37.5°	9182.3	9097.6	8622.2	7631.5	6909.7	6713.0	6566.3	6319.7	6088.3	6043.5	6576.2
40°	10479.1	10372.0	9849.3	8525.1	7432.4	7116.3	6879.8	6486.5	6177.9	6065.8	6668.2
42.5°	12017.3	11865.5	11302.9	9578.0	8094.5	7636.6	7280.6	6698.2	6309.8	6138.1	6792.7
45°	13906.5	13704.9	12908.4	10765.3	8928.4	8318.5	7843.1	7019.2	6511.4	6277.5	6979.4
47.5°	15815.6	15865.5	14732.8	12124.3	9929.0	9159.8	8547.5	7502.1	6805.2	6501.5	7280.6
50°	17844.2	17879.1	16547.4	13630.2	11064.0	10110.7	9339.1	8042.3	7213.3	6820.0	7731.1
52.5°	19427.3	19432.3	18195.2	15205.8	12246.3	11156.1	10192.8	8659.5	7686.3	7243.3	8331.0
55°	20418.0	20405.5	19350.2	16696.7	13605.3	12253.8	11138.7	9361.4	8263.8	7741.0	9085.2
57.5°	21137.3	21099.9	20146.7	17978.7	15054.0	13550.6	12209.0	10158.0	8945.8	8333.5	10078.3
60°	21411.1	21388.7	20686.8	19086.3	16577.3	14984.3	13443.6	11049.1	9719.9	9032.9	11355.2
62.5°	21515.7	21558.0	21217.0	20159.1	18207.7	16572.3	14800.1	12114.4	10591.0	9824.4	12701.8
65°	21884.1	21961.1	21891.5	21562.9	20049.6	18431.7	16599.7	13381.3	11541.9	10673.2	14108.1
67.5°	22613.3	22690.5	22720.4	23243.1	22299.7	20749.0	18844.8	14959.4	12654.5	11554.3	15166.0
70°	22595.9	22573.5	23101.1	24579.7	25117.3	23957.4	21871.6	16900.9	13981.2	12286.2	15300.4
72.5°	20567.3	20388.1	21635.1	24564.7	27462.1	27307.7	25567.9	19404.9	15126.1	12375.7	13276.8
75°	15429.8	14951.9	17154.8	22137.9	27852.8	29209.4	27917.6	20958.1	14854.8	10934.5	9239.5
77.5°	6598.5	6118.1	8714.2	16388.1	24928.2	27305.3	25762.0	18284.8	11858.0	7230.8	4537.6
80°	1727.4	1725.0	2633.4	7429.9	16953.2	20164.1	17690.0	11808.2	6775.2	2583.7	1252.0
82.5°	714.3	696.9	968.2	2889.8	8283.6	11315.4	9234.5	5266.9	2446.8	699.5	415.6
85°	266.3	263.8	470.5	998.1	2922.2	4667.0	3377.7	1346.6	609.9	341.0	186.7
87.5°	74.7	72.2	102.1	345.9	711.9	1080.2	577.5	221.5	171.8	134.4	54.7
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°	5366.5	5366.5	5366.5	5366.5	5366.5	5366.5	5366.5	5366.5	5366.5	5366.5	5366.5
2.5°	5383.9	5396.3	5418.8	5436.2	5458.5	5483.4	5518.3	5540.7	5563.1	5578.0	5568.1
5°	5406.3	5433.6	5490.9	5548.1	5615.4	5677.6	5749.7	5802.0	5844.3	5856.8	5861.8
7.5°	5456.1	5500.9	5597.9	5695.0	5802.0	5904.1	6008.7	6098.2	6170.4	6197.9	6200.3
10°	5543.2	5603.0	5739.8	5876.7	6018.6	6175.4	6309.8	6439.3	6541.3	6583.7	6586.1
12.5°	5652.7	5727.4	5906.6	6095.8	6292.4	6509.0	6683.2	6842.5	6969.4	7026.7	7026.7
15°	5794.6	5891.7	6120.7	6374.6	6663.3	6964.5	7186.0	7362.7	7504.5	7574.2	7569.3
17.5°	5948.9	6078.4	6367.1	6750.4	7163.6	7559.4	7818.2	7947.6	8094.5	8161.7	8159.2
20°	6098.2	6257.5	6670.7	7228.3	7778.4	8199.1	8408.1	8442.9	8453.0	8460.3	8480.3
22.5°	6252.6	6466.6	7051.6	7830.7	8420.6	8711.8	8741.7	8592.3	8383.3	8286.2	8313.6
25°	6421.8	6705.6	7549.4	8495.2	8973.2	9008.0	8779.0	8415.6	8019.8	7838.2	7865.5
27.5°	6586.1	6981.9	8146.8	9130.0	9371.4	9065.2	8572.4	8057.1	7579.3	7387.6	7410.0
30°	6750.4	7298.0	8806.4	9685.0	9553.1	8923.3	8246.3	7671.4	7191.0	6989.4	7011.7
32.5°	6917.2	7666.4	9565.5	10085.8	9520.7	8622.2	7840.6	7238.2	6815.1	6603.6	6630.9
35°	7106.3	8119.4	10284.8	10304.8	9304.2	8179.1	7305.5	6720.5	6352.1	6182.9	6220.2
37.5°	7352.7	8694.4	10919.6	10359.6	8925.9	7529.4	6640.9	6108.2	5804.6	5727.4	5782.1
40°	7658.9	9386.3	11405.0	10272.4	8365.8	6740.4	5914.0	5488.5	5316.7	5334.1	5393.9
42.5°	8057.1	10160.4	11746.0	10048.4	7586.7	5926.5	5276.9	5087.7	5169.8	5239.5	5304.3
45°	8574.9	10964.4	11957.5	9667.6	6705.6	5237.0	4901.0	4945.8	5008.0	5015.5	5065.2
47.5°	9237.0	11778.4	12096.9	9092.7	5807.0	4751.7	4662.0	4672.1	4659.5	4607.3	4647.1
50°	10063.3	12569.9	12221.4	8331.0	5042.9	4448.0	4328.5	4293.6	4121.9	3952.7	3975.1
52.5°	11004.2	13296.7	12273.7	7385.1	4448.0	4194.1	4000.0	3780.9	3459.8	3407.5	3424.9
55°	12049.7	13968.7	12139.3	6222.7	3947.7	3868.0	3574.3	3310.4	3275.6	3230.8	3238.3
57.5°	13299.2	14693.1	11865.5	4925.9	3435.0	3487.3	3201.0	3230.8	3168.6	3098.9	3086.5
60°	14665.7	15442.2	11385.1	3743.6	2904.7	3011.8	3103.9	3101.4	3084.0	3026.7	3006.8
62.5°	15895.3	15935.2	10439.2	2867.4	2439.3	2643.4	2894.8	2892.3	2877.4	2845.0	2832.6
65°	16627.0	15860.4	8861.1	2257.6	2055.9	2339.8	2611.1	2631.0	2633.4	2631.0	2631.0
67.5°	16497.7	14986.7	6695.6	1797.1	1739.8	2031.1	2329.8	2357.2	2377.1	2382.1	2387.0
70°	15034.1	13067.7	4365.9	1433.7	1458.6	1759.8	2063.4	2090.8	2108.2	2128.2	2138.1
72.5°	11718.6	9607.8	2499.1	1159.9	1212.2	1525.8	1799.6	1832.0	1841.9	1879.2	1894.2
75°	7141.2	5650.2	1349.1	913.5	995.6	1304.3	1538.2	1575.6	1593.1	1637.8	1642.8
77.5°	3395.1	2446.8	769.2	711.9	801.4	1065.3	1299.3	1341.6	1294.4	1319.2	1299.3
80°	1147.5	908.6	485.3	542.6	612.3	831.4	1040.5	1082.7	983.2	978.3	968.2
82.5°	400.8	368.4	308.6	360.9	395.8	594.9	786.6	841.3	731.7	729.3	694.4
85°	156.8	149.3	171.8	196.6	236.5	365.9	517.7	545.1	450.5	363.4	358.4
87.5°	32.4	34.8	42.3	44.8	72.2	126.9	186.7	229.0	181.7	154.4	141.9
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)