

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: P884791

Luminaire Tested: **NVN-SB5D-735-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884791
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB5D-735-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51036 lumens
Efficiency: N/A
Efficacy: 139.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

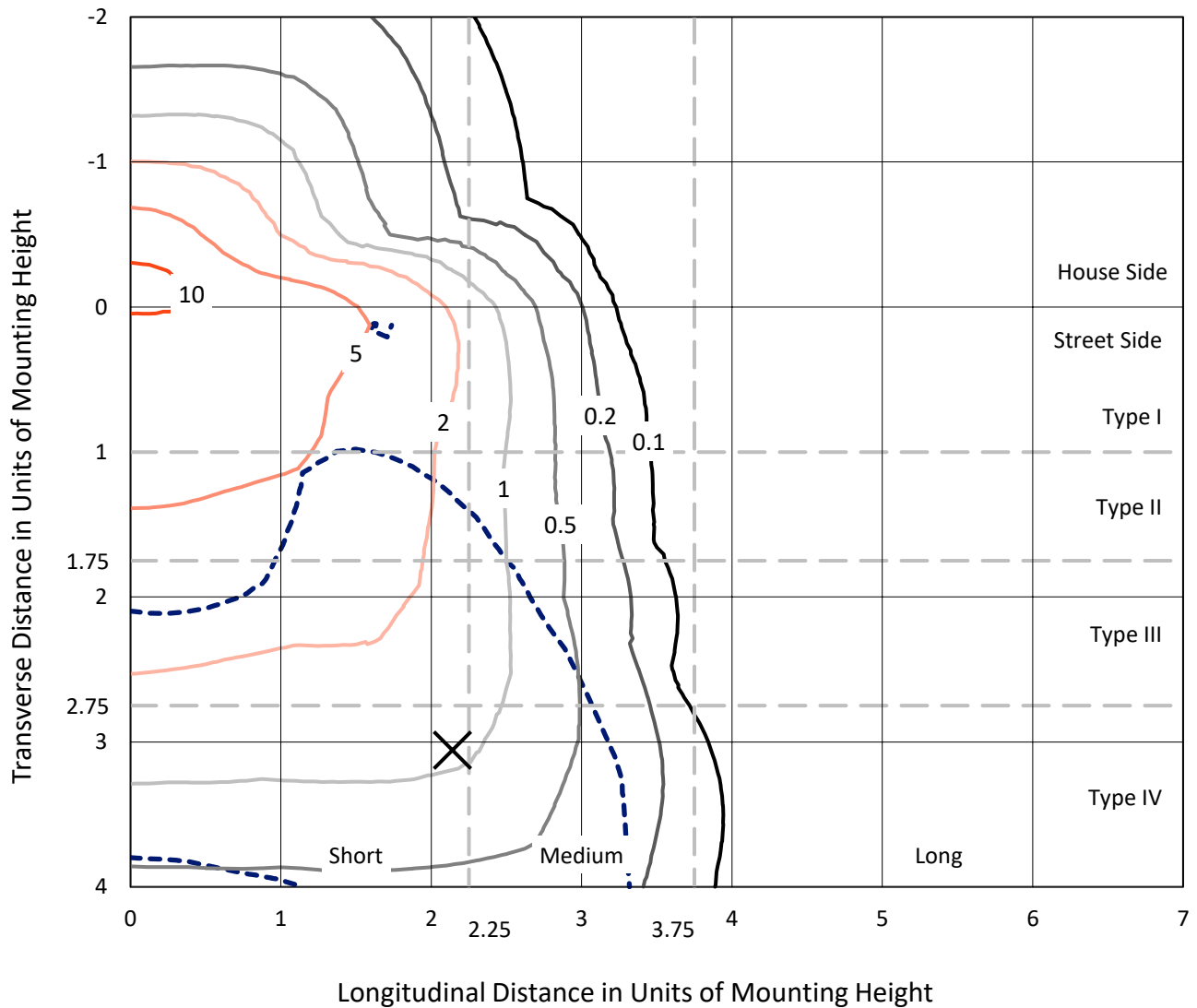
Input Watts (W): 364.9
Input Voltage (V): 120.0
Input Current (Ain): 3.094
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 3.28
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

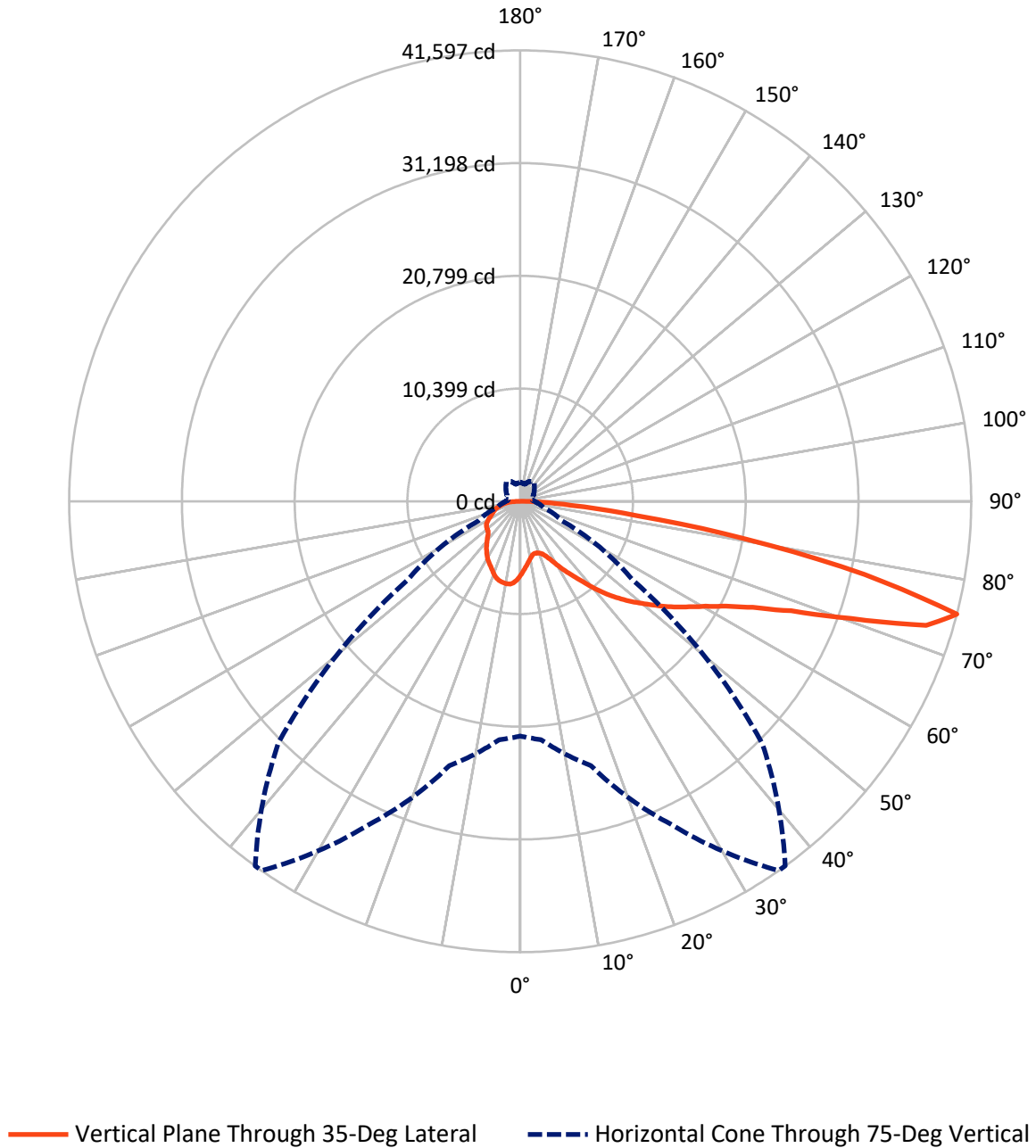
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12145.3	0.0	12145.3
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	38890.7	0.0	38890.7
	% Fixture	76.2	0.0	76.2
Total	Lumens	51036.0	0.0	51036.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	643.9	1.3
10°-20°	1857.3	3.6
20°-30°	3118.9	6.1
30°-40°	4847.2	9.5
40°-50°	7194.6	14.1
50°-60°	9932.5	19.5
60°-70°	12050.4	23.6
70°-80°	9958.8	19.5
80°-90°	1432.4	2.8
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°	51036.0	100.0
0°-180°	51036.0	100.0

Coefficient of Utilization



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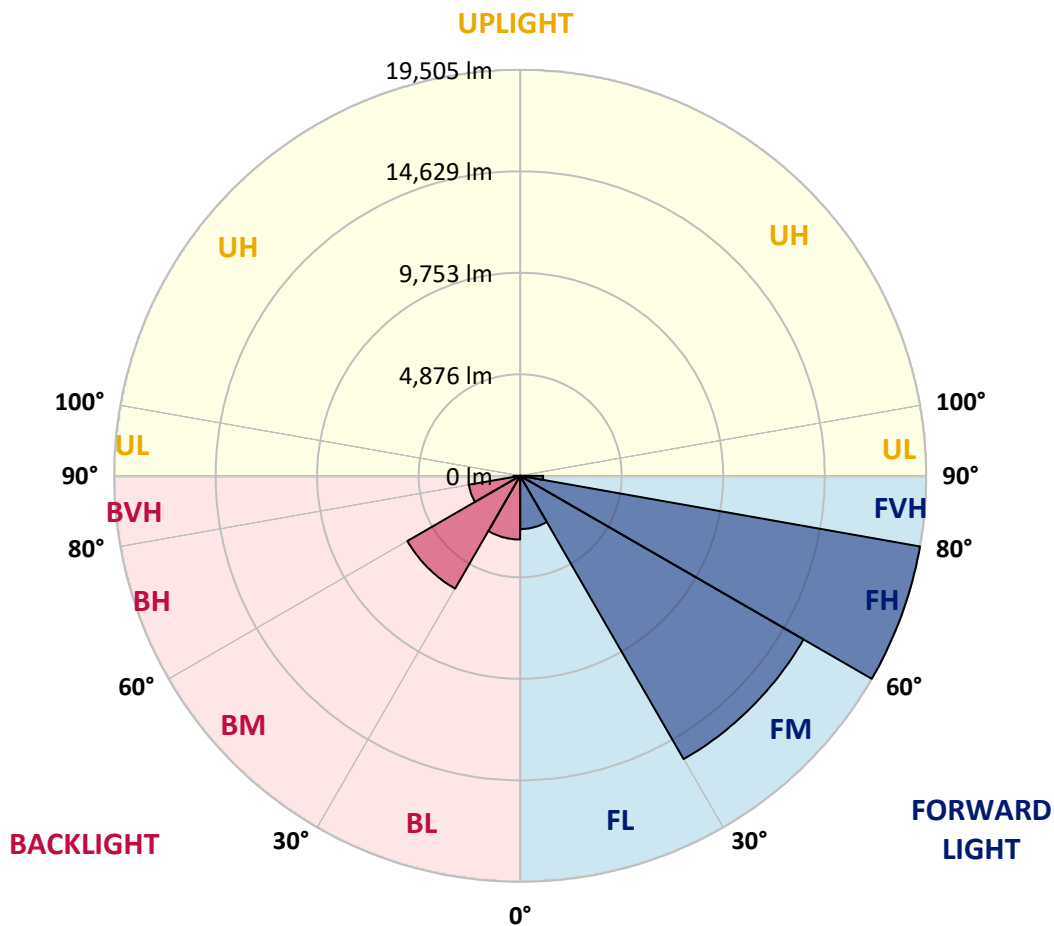
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2559.4	5.0			
FM (30°-60°)	15716.3	30.8			
FH (60°-80°)	19505.2	38.2			G5
FVH (80°-90°)	1109.8	2.2			G5
BL (0°-30°)	3060.8	6.0	B4/5000		
BM (30°-60°)	6258.0	12.3	B4/8500		
BH (60°-80°)	2504.0	4.9	B4/5000		G4/5000
BVH (80°-90°)	322.5	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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	6800.9	6800.9	6800.9	6800.9	6800.9	6800.9	6800.9	6800.9	6800.9	6800.9	6800.9
2.5°	6271.2	6309.8	6326.3	6318.1	6359.5	6353.9	6411.9	6483.6	6582.9	6679.5	6820.2
5°	5788.3	5829.7	5865.6	5898.7	5978.7	6003.5	6094.6	6232.5	6414.6	6599.5	6831.2
7.5°	5338.6	5374.5	5429.7	5490.4	5625.6	5650.4	5802.1	6017.3	6271.2	6541.5	6861.6
10°	4971.7	5007.6	5065.5	5134.5	5302.8	5333.1	5526.2	5813.2	6144.3	6486.4	6894.7
12.5°	4814.4	4825.5	4858.6	4927.5	5073.8	5093.1	5305.5	5633.8	6020.1	6445.0	6944.4
15°	4806.1	4828.2	4831.0	4866.8	4988.2	4996.5	5192.4	5518.0	5942.8	6436.7	7018.9
17.5°	4888.9	4905.5	4880.6	4902.7	5004.8	5018.6	5173.1	5462.8	5918.0	6472.6	7145.8
20°	5109.6	5123.4	5048.9	5018.6	5093.1	5104.1	5255.9	5498.7	5942.8	6547.1	7319.6
22.5°	5578.7	5586.9	5404.8	5280.7	5286.2	5291.7	5424.2	5644.9	6039.4	6682.3	7540.3
25°	6309.8	6304.3	6014.6	5774.6	5636.6	5606.3	5694.5	5882.2	6202.2	6861.6	7824.5
27.5°	7165.1	7123.7	6834.0	6475.3	6174.6	6130.5	6111.1	6191.2	6433.9	7098.9	8172.1
30°	8130.7	8092.1	7780.3	7311.3	6894.7	6823.0	6640.9	6599.5	6778.8	7421.7	8654.9
32.5°	9190.2	9165.3	8792.9	8224.5	7667.2	7584.4	7278.2	7167.8	7308.5	7910.0	9328.1
35°	10078.6	10056.5	9747.5	9162.6	8481.1	8379.0	8067.3	7943.1	8014.8	8536.3	10208.2
37.5°	10881.4	10870.4	10605.5	10144.8	9441.2	9317.1	8966.7	8925.3	8911.5	9361.2	11276.0
40°	11626.4	11598.8	11322.9	11080.1	10558.6	10445.5	10136.5	10100.6	9995.8	10376.5	12484.4
42.5°	12451.3	12379.6	11979.5	11866.4	11725.7	11631.9	11447.0	11452.5	11220.8	11521.5	13764.6
45°	13124.5	13083.1	12672.0	12605.8	12757.5	12718.9	12878.9	12920.3	12470.6	12721.7	15094.4
47.5°	13847.3	13808.7	13461.1	13414.2	13825.3	13836.3	14401.9	14415.7	13690.1	13968.7	16427.0
50°	14738.5	14683.3	14338.4	14396.4	14857.1	14898.5	15933.1	15839.3	14813.0	15235.1	17748.5
52.5°	15326.1	15359.3	15284.8	15378.6	16007.6	16046.2	17439.5	17199.5	15924.8	16484.9	19045.3
55°	15759.3	15825.5	16057.3	16272.5	17221.6	17260.2	18860.4	18493.5	16846.3	17643.7	20264.7
57.5°	16316.6	16222.8	16656.0	17075.3	18374.8	18476.9	20242.7	19740.5	17663.0	18642.4	21100.7
60°	17116.7	17050.5	17387.1	18007.9	19666.0	19828.8	21704.9	20863.4	18261.7	19434.3	21263.5
62.5°	18739.0	18573.5	18625.9	19174.9	21293.8	21509.0	23354.8	21842.9	18559.7	19743.3	20391.6
65°	21164.2	20880.0	20615.1	20995.9	23586.5	23799.0	25217.1	22612.6	18449.3	19144.6	18076.9
67.5°	24218.3	23936.9	23611.4	23970.0	26963.5	27131.8	27515.3	23045.8	17580.2	16838.1	13985.3
70°	26737.3	26632.5	27021.5	28497.5	32357.3	32362.9	30461.9	22687.1	15199.2	11938.1	8092.1
72.5°	26403.5	26340.0	28389.9	32953.3	39155.5	39009.3	33251.3	19972.3	10238.6	5385.5	3032.1
75°	21660.8	22071.9	25247.5	32873.3	41597.2	41577.9	31543.4	12696.8	4235.0	2232.0	1567.1
77.5°	11615.3	12266.4	16391.1	24270.8	32473.2	32961.6	22176.7	4442.0	1818.2	1429.2	1084.3
80°	3788.1	4356.4	6533.3	12357.5	21100.7	21009.7	9504.7	1743.7	1244.3	1012.5	750.4
82.5°	1608.5	1674.7	2919.0	5835.2	10829.0	10660.7	3026.6	1001.5	874.6	692.5	463.5
85°	629.0	703.5	1288.4	2698.3	4690.3	4588.2	1092.6	496.6	560.1	452.5	275.9
87.5°	206.9	251.1	460.8	924.3	1459.5	1407.1	267.6	171.1	242.8	206.9	99.3
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°	6800.9	6800.9	6800.9	6800.9	6800.9	6800.9	6800.9	6800.9	6800.9	6800.9	6800.9
2.5°	6858.8	6903.0	6955.4	7032.6	7098.9	7154.0	7212.0	7247.8	7261.6	7303.0	7300.3
5°	6908.5	7005.1	7134.7	7261.6	7385.8	7460.3	7526.5	7559.6	7590.0	7612.0	7617.6
7.5°	6991.3	7115.4	7319.6	7485.1	7590.0	7650.7	7694.8	7683.8	7694.8	7700.3	7708.6
10°	7063.0	7236.8	7479.6	7636.9	7716.9	7719.6	7708.6	7670.0	7650.7	7653.4	7658.9
12.5°	7148.5	7341.7	7603.8	7736.2	7758.3	7697.6	7650.7	7584.4	7559.6	7548.6	7543.1
15°	7264.4	7485.1	7738.9	7788.6	7733.4	7656.2	7576.2	7468.6	7413.4	7369.2	7383.0
17.5°	7405.1	7647.9	7843.8	7807.9	7689.3	7562.4	7432.7	7269.9	7156.8	7109.9	7112.7
20°	7601.0	7819.0	7923.8	7766.5	7587.2	7394.1	7173.4	6974.7	6869.9	6823.0	6817.4
22.5°	7838.3	8048.0	8001.0	7694.8	7441.0	7132.0	6856.1	6709.8	6657.4	6624.3	6629.8
25°	8122.4	8301.8	8056.2	7590.0	7200.9	6784.3	6571.9	6525.0	6500.2	6475.3	6475.3
27.5°	8492.1	8588.7	8097.6	7435.5	6825.7	6414.6	6337.4	6345.7	6337.4	6296.0	6304.3
30°	8980.5	8961.2	8136.2	7184.4	6395.3	6080.8	6086.3	6122.2	6127.7	6100.1	6113.9
32.5°	9623.3	9427.4	8155.6	6858.8	5984.2	5788.3	5793.9	5832.5	5860.1	5813.2	5835.2
35°	10401.4	9971.0	8125.2	6450.5	5667.0	5509.7	5468.3	5479.3	5487.6	5443.5	5473.8
37.5°	11309.1	10580.7	7990.0	5998.0	5404.8	5236.5	5148.3	5073.8	5029.6	4988.2	5015.8
40°	12305.1	11245.6	7741.7	5556.6	5112.4	4946.9	4814.4	4673.7	4524.7	4469.6	4494.4
42.5°	13348.0	11929.8	7441.0	5134.5	4775.8	4640.6	4499.9	4295.7	4072.3	3959.1	3972.9
45°	14429.5	12630.6	7145.8	4717.9	4430.9	4373.0	4210.2	3964.7	3721.9	3578.4	3567.4
47.5°	15488.9	13292.8	6712.6	4298.5	4108.1	4171.6	4044.7	3818.4	3548.1	3321.8	3297.0
50°	16501.5	13913.5	6003.5	3873.6	3846.0	4110.9	3989.5	3663.9	3354.9	3065.2	3040.4
52.5°	17505.7	14415.7	5095.8	3487.4	3705.3	4094.3	3917.8	3559.1	3181.1	2877.6	2844.5
55°	18358.3	14675.0	4221.2	3156.3	3501.1	3953.6	3832.2	3434.9	2935.6	2612.8	2585.2
57.5°	18843.9	14465.3	3492.9	2830.7	3219.7	3721.9	3686.0	3170.1	2643.1	2394.8	2361.7
60°	18634.2	13615.6	2896.9	2546.5	2952.1	3470.8	3432.2	2908.0	2419.6	2185.1	2152.0
62.5°	17478.2	11996.1	2425.1	2298.2	2709.3	3214.2	3178.3	2706.6	2248.6	2022.3	1986.5
65°	15149.6	9758.5	2058.2	2091.3	2463.8	2905.2	2957.6	2538.3	2113.4	1892.7	1856.8
67.5°	11554.6	7068.5	1771.3	1912.0	2223.7	2601.7	2753.5	2416.9	2000.3	1790.6	1757.5
70°	6585.7	4014.3	1528.5	1738.2	2011.3	2320.3	2596.2	2320.3	1878.9	1705.1	1683.0
72.5°	2496.9	1843.0	1321.6	1564.3	1807.1	2083.0	2422.4	2168.6	1738.2	1608.5	1586.4
75°	1332.6	1122.9	1111.9	1360.2	1572.6	1851.3	2204.4	2019.6	1633.3	1699.5	1754.7
77.5°	907.7	794.6	929.8	1164.3	1316.0	1594.7	1972.7	1793.3	1415.4	1409.8	1299.5
80°	629.0	562.8	756.0	938.1	1018.1	1340.9	1721.6	1539.5	1153.3	1076.0	1029.1
82.5°	378.0	366.9	565.6	700.8	720.1	1034.6	1426.4	1291.2	943.6	822.2	827.7
85°	206.9	218.0	361.4	411.1	419.4	722.9	1117.4	998.8	725.6	609.7	615.3
87.5°	57.9	74.5	132.4	162.8	201.4	375.2	664.9	593.2	364.2	253.8	253.8
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)