

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: LUMARK

Report Number: P971050

Luminaire Tested: **NAV-SB6C-830-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971050
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-830-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42387.8 lumens
Efficiency: N/A
Efficacy: 140.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 300.9
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



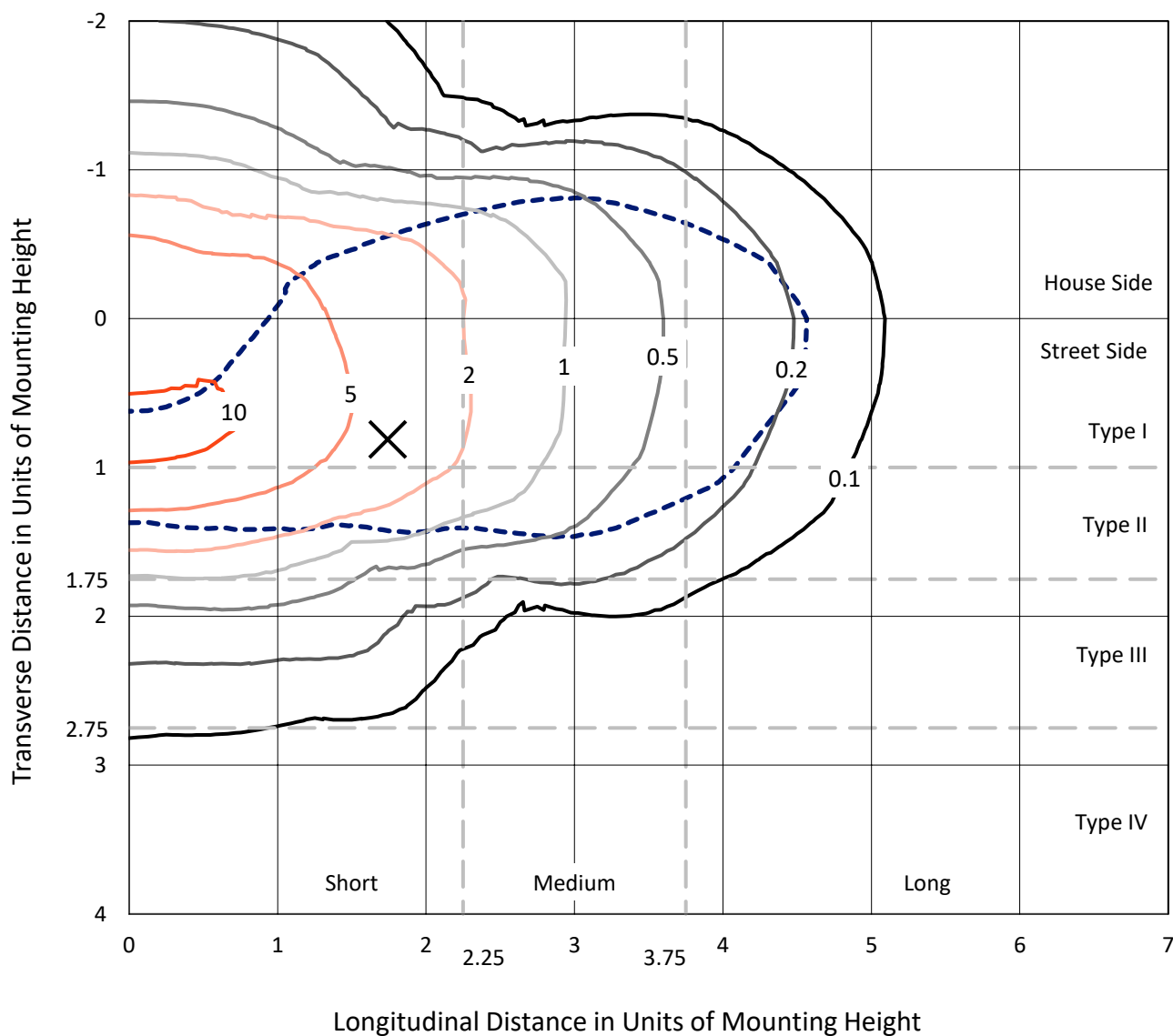
REPORT NUMBER: P971050

CATALOG NUMBER: NAV-SB6C-830-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

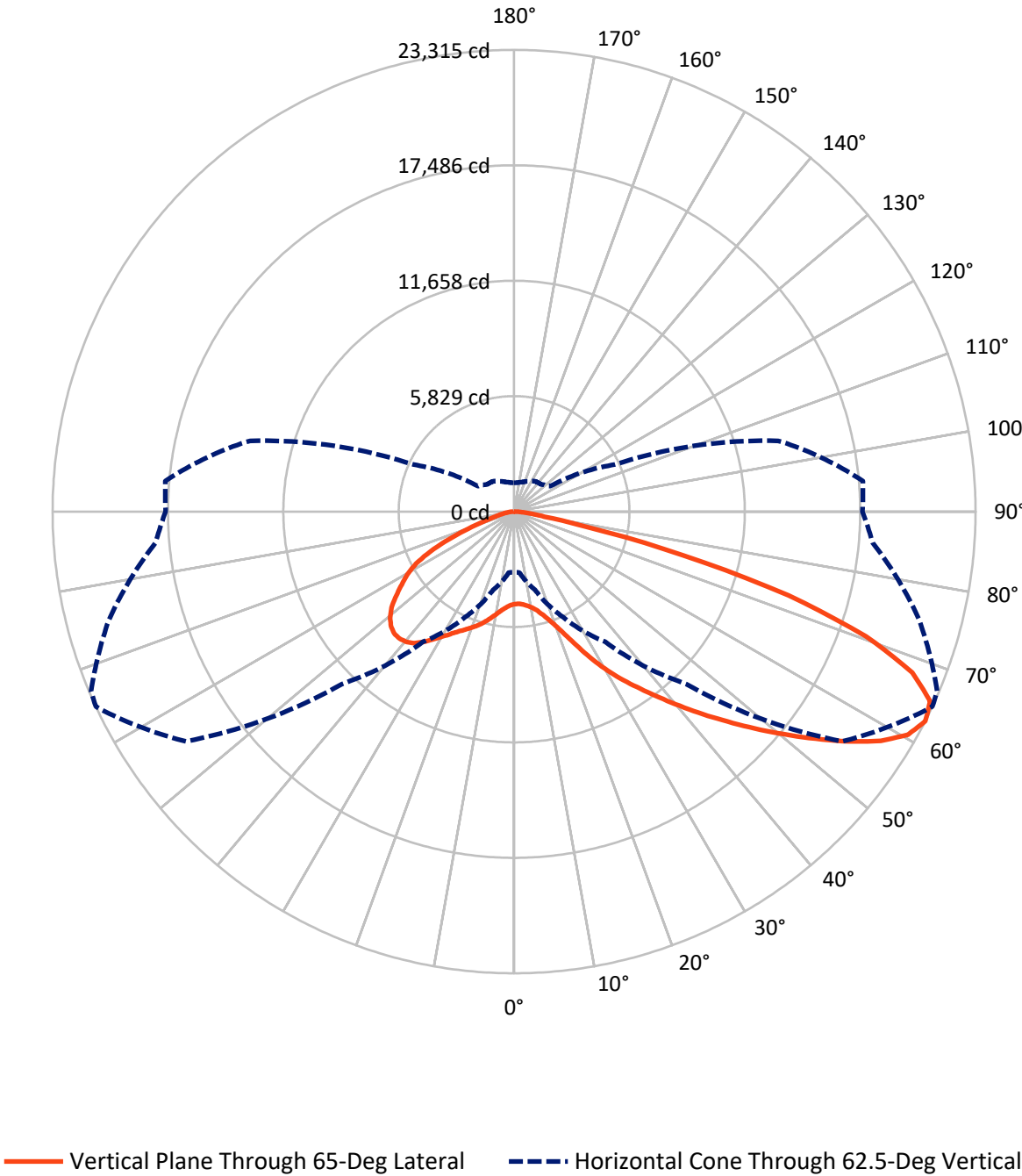


Based on 25 foot mounting height. Maximum calculated value = 11.9 fc

Type II - Short - N/A

REPORT NUMBER: P971050
CATALOG NUMBER: NAV-SB6C-830-U-T2U

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13375.8	0.0	13375.8
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	29012.1	0.0	29012.1
	% Fixture	68.4	0.0	68.4
Total	Lumens	42387.8	0.0	42387.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.7	1.1
10°-20°	1579.2	3.7
20°-30°	3202.0	7.6
30°-40°	5541.0	13.1
40°-50°	8385.2	19.8
50°-60°	9831.1	23.2
60°-70°	8242.2	19.4
70°-80°	4550.4	10.7
80°-90°	591.1	1.4
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°	42387.8	100.0
0°-180°	42387.8	100.0

Coefficient of Utilization



REPORT NUMBER: P971050

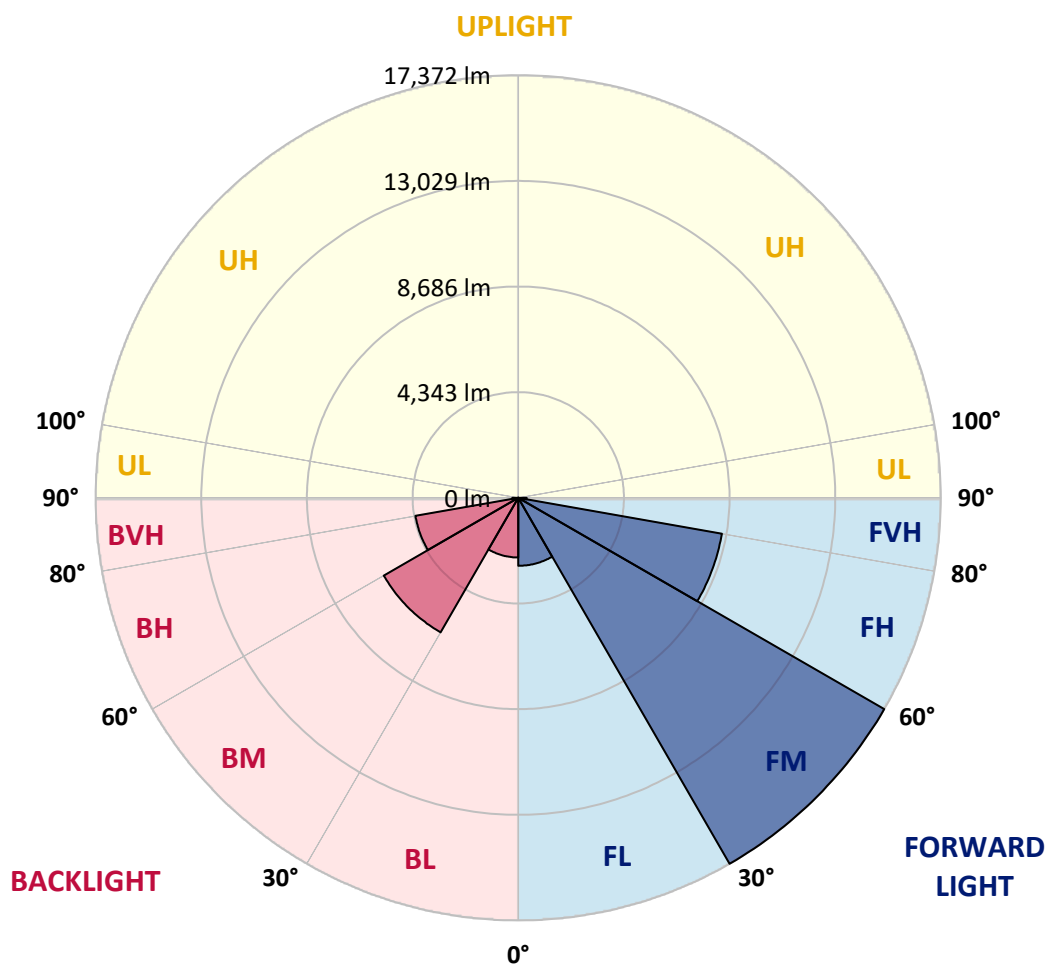
CATALOG NUMBER: NAV-SB6C-830-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2793.9	6.6			
FM	(30°-60°)	17371.9	41.0			
FH	(60°-80°)	8501.8	20.1			G4/12000
FVH	(80°-90°)	344.5	0.8			G3/500
BL	(0°-30°)	2453.0	5.8	B3/2500		
BM	(30°-60°)	6385.4	15.1	B4/8500		
BH	(60°-80°)	4290.8	10.1	B4/5000		G4/5000
BVH	(80°-90°)	246.6	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 Short



REPORT NUMBER: P971050

CATALOG NUMBER: NAV-SB6C-830-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4670.9	4670.9	4670.9	4670.9	4670.9	4670.9	4670.9	4670.9	4670.9	4670.9	4670.9
2.5°	4640.2	4627.0	4637.9	4637.9	4642.3	4640.2	4655.5	4660.0	4666.5	4679.7	4679.7
5°	4593.9	4591.8	4611.6	4629.2	4646.7	4662.1	4682.0	4710.6	4714.9	4730.4	4750.2
7.5°	4578.6	4565.3	4596.2	4618.1	4660.0	4697.4	4750.2	4798.5	4818.3	4824.9	4862.3
10°	4697.4	4675.3	4703.9	4717.2	4752.3	4789.7	4851.3	4928.3	4950.2	4976.7	5018.4
12.5°	4899.7	4875.5	4917.2	4937.0	4970.0	5003.0	5044.8	5119.6	5130.5	5178.9	5218.6
15°	5176.8	5148.2	5174.5	5198.8	5253.7	5284.5	5326.3	5398.9	5398.9	5436.3	5464.9
17.5°	5552.8	5515.4	5535.2	5544.0	5579.2	5625.4	5695.7	5759.6	5792.5	5779.4	5739.7
20°	6113.6	6067.4	6067.4	6023.4	6010.2	6047.6	6140.0	6227.9	6263.2	6195.0	6098.2
22.5°	6955.9	6889.8	6852.5	6703.0	6643.5	6647.9	6740.3	6848.1	6876.7	6755.8	6538.1
25°	8026.9	7923.5	7872.9	7653.0	7518.8	7402.2	7474.8	7613.4	7653.0	7503.4	7151.5
27.5°	9097.8	9104.4	9056.0	8792.1	8570.0	8356.7	8319.3	8464.4	8506.3	8336.9	7901.5
30°	10599.8	10443.7	10351.3	10034.6	9717.9	9418.9	9265.0	9324.3	9335.3	9133.0	8627.2
32.5°	11895.1	11855.6	11657.6	11380.5	10973.6	10505.2	10247.9	10153.4	10135.8	9847.7	9247.3
35°	13370.7	13348.8	13139.8	12809.9	12370.1	11719.1	11255.1	10984.6	10962.7	10558.0	9860.9
37.5°	14870.5	14870.5	14666.0	14305.3	13850.1	13036.5	12330.5	11901.7	11831.4	11303.5	10485.4
40°	16066.9	15994.3	16031.7	15879.9	15358.7	14494.5	13524.7	12902.3	12807.8	12174.4	11149.6
42.5°	16746.3	16722.2	16946.5	17115.9	16902.6	16212.0	14839.7	13986.4	13854.5	13133.2	11914.9
45°	16898.1	16871.7	17272.0	17892.1	18191.2	17907.6	16269.2	15127.9	14967.3	14136.0	12735.2
47.5°	16548.5	16495.7	17082.9	18061.5	19020.3	19519.5	17817.4	16366.0	16132.9	15112.4	13577.5
50°	15497.3	15446.7	16335.1	17634.8	19299.6	20614.7	19497.6	17678.8	17322.6	16159.2	14428.5
52.5°	13212.4	13236.5	14628.6	16414.4	18932.4	21296.4	20944.5	19062.1	18633.3	17230.2	15226.8
55°	10291.9	10344.7	12055.6	14021.7	17463.3	21193.0	21931.9	20487.1	20060.5	18237.4	16051.5
57.5°	7369.3	7602.4	9205.5	11151.8	14641.8	19554.6	22147.5	21841.8	21428.3	19336.9	16858.6
60°	4776.5	4818.3	6467.6	8429.3	11149.6	16643.0	21709.8	22868.8	22545.5	20458.5	17533.6
62.5°	3061.2	3089.8	4094.8	5895.9	8024.6	12312.9	20236.4	23315.2	23216.2	21199.7	18182.5
65°	2249.7	2227.7	2751.1	3896.8	5405.4	7593.6	17375.4	23099.7	23295.4	21663.7	18719.1
67.5°	1878.1	1847.3	2104.5	2698.3	3982.6	4312.5	12856.2	21698.8	22415.7	21610.9	19112.7
70°	1710.9	1684.5	1840.7	2003.4	3107.4	2887.4	6480.9	18864.2	19968.1	21010.6	19048.9
72.5°	1449.2	1403.0	1616.3	1779.1	2416.8	2214.5	2678.5	14490.1	15835.9	19086.3	18151.6
75°	1123.7	1093.0	1275.5	1565.8	1816.5	1728.6	1693.3	8798.7	10267.7	14760.6	15879.9
77.5°	890.6	848.9	1016.0	1220.5	1634.0	1304.1	1233.7	3789.1	5244.9	9423.2	11881.9
80°	670.8	633.3	771.9	965.4	1255.7	983.0	798.3	1546.0	1977.0	4774.3	5975.0
82.5°	477.2	444.2	538.7	708.1	844.5	881.8	490.4	866.4	974.3	1840.7	1334.9
85°	305.7	285.9	360.7	444.2	536.6	567.3	299.1	453.0	497.0	758.7	556.4
87.5°	167.2	136.3	193.5	206.7	248.5	226.5	143.0	164.9	178.1	274.9	235.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P971050

CATALOG NUMBER: NAV-SB6C-830-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4670.9	4670.9	4670.9	4670.9	4670.9	4670.9	4670.9	4670.9	4670.9	4670.9	4670.9
2.5°	4688.6	4695.1	4717.2	4723.7	4739.1	4759.0	4772.1	4785.3	4785.3	4798.5	4798.5
5°	4752.3	4767.7	4813.9	4838.1	4877.7	4917.2	4941.4	4970.0	4987.6	4996.5	5000.9
7.5°	4875.5	4899.7	4965.6	5007.4	5075.6	5130.5	5167.9	5207.5	5216.3	5240.5	5231.7
10°	5042.6	5071.2	5146.0	5225.1	5306.5	5374.7	5409.8	5438.4	5449.4	5453.8	5442.9
12.5°	5234.0	5275.7	5372.4	5469.2	5555.0	5614.3	5623.2	5616.6	5585.8	5559.4	5559.4
15°	5469.2	5506.6	5614.3	5719.9	5803.5	5814.5	5759.6	5724.3	5687.0	5680.3	5680.3
17.5°	5750.8	5770.5	5869.5	5972.9	5979.4	5942.0	5860.6	5827.7	5792.5	5768.3	5770.5
20°	6078.4	6071.8	6142.2	6186.2	6140.0	6025.7	5902.5	5847.5	5812.3	5783.8	5785.9
22.5°	6469.8	6419.3	6410.5	6399.5	6276.3	6036.6	5869.5	5799.1	5744.1	5704.5	5717.8
25°	7039.4	6845.9	6711.8	6637.0	6359.9	5977.3	5763.9	5607.8	5504.5	5436.3	5462.6
27.5°	7752.0	7426.4	7087.8	6905.3	6359.9	5856.3	5508.9	5255.9	5086.6	5016.2	5051.4
30°	8431.4	8090.6	7591.4	7228.5	6344.5	5658.4	5097.6	4745.8	4547.8	4477.4	4519.2
32.5°	9012.0	8640.4	8125.8	7582.6	6307.1	5337.3	4587.4	4198.2	4006.8	3923.3	3965.0
35°	9550.8	9155.0	8662.4	7971.8	6208.1	4866.7	4026.6	3729.8	3516.4	3382.3	3426.3
37.5°	10102.8	9632.2	9170.4	8323.7	6030.0	4316.9	3595.6	3342.7	3092.0	2911.6	2960.0
40°	10703.2	10140.2	9713.6	8532.6	5737.5	3793.5	3261.3	3030.4	2764.3	2573.0	2610.4
42.5°	11404.7	10749.4	10318.4	8640.4	5337.3	3421.9	3043.6	2817.1	2566.4	2410.3	2441.0
45°	12137.0	11420.1	10870.3	8638.2	4890.9	3248.1	2973.2	2748.9	2471.8	2309.1	2335.5
47.5°	12904.5	12121.6	11347.6	8497.5	4503.8	3272.3	2933.7	2601.6	2295.9	2137.5	2159.6
50°	13674.2	12889.1	11809.3	8233.5	4338.9	3219.5	2786.3	2394.8	2034.2	1891.2	1900.0
52.5°	14437.3	13705.0	12207.3	7857.5	4171.8	3023.9	2597.1	2126.6	1926.5	1827.5	1827.5
55°	15204.8	14512.1	12640.6	7309.9	3754.0	2795.1	2280.5	2025.4	1840.7	1750.5	1741.7
57.5°	15974.5	15444.5	13051.8	6762.3	3228.3	2513.6	2106.8	1902.3	1754.9	1677.9	1664.7
60°	16774.9	16511.1	13476.3	6258.8	2709.3	2152.9	1979.2	1803.3	1653.7	1567.9	1561.4
62.5°	17599.7	17685.5	13808.4	5610.0	2232.1	1933.0	1864.9	1684.5	1539.3	1458.1	1455.8
65°	18430.9	18818.0	14026.1	4710.6	1809.8	1724.2	1741.7	1554.8	1407.4	1337.1	1334.9
67.5°	19057.7	19633.9	13964.5	3564.7	1484.4	1526.2	1587.7	1418.4	1279.9	1224.9	1227.1
70°	19128.0	19537.1	13357.5	2441.0	1242.5	1332.7	1416.2	1284.3	1141.3	1101.8	1103.9
72.5°	18191.2	18217.6	11666.4	1594.4	1051.1	1169.9	1235.9	1147.9	1009.4	969.9	967.6
75°	15734.8	15066.3	8565.6	1051.1	879.7	1005.0	1066.6	1005.0	870.8	879.7	848.9
77.5°	11921.5	10670.1	5201.0	747.7	734.5	844.5	928.0	884.1	769.7	864.3	760.9
80°	6142.2	5772.7	2320.1	558.6	580.6	675.2	763.1	705.9	609.2	580.6	530.0
82.5°	1407.4	1636.1	914.8	400.3	420.0	486.1	582.8	530.0	437.7	369.4	365.1
85°	492.6	538.7	404.7	250.7	246.3	303.5	395.9	354.0	296.8	237.5	250.7
87.5°	156.1	204.5	151.7	101.2	105.6	136.3	182.6	167.2	138.6	90.2	94.6
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)