

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: P970895

Luminaire Tested: **NAV-SB6C-735-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970895
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-735-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47173.6 lumens
Efficiency: N/A
Efficacy: 156.8 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



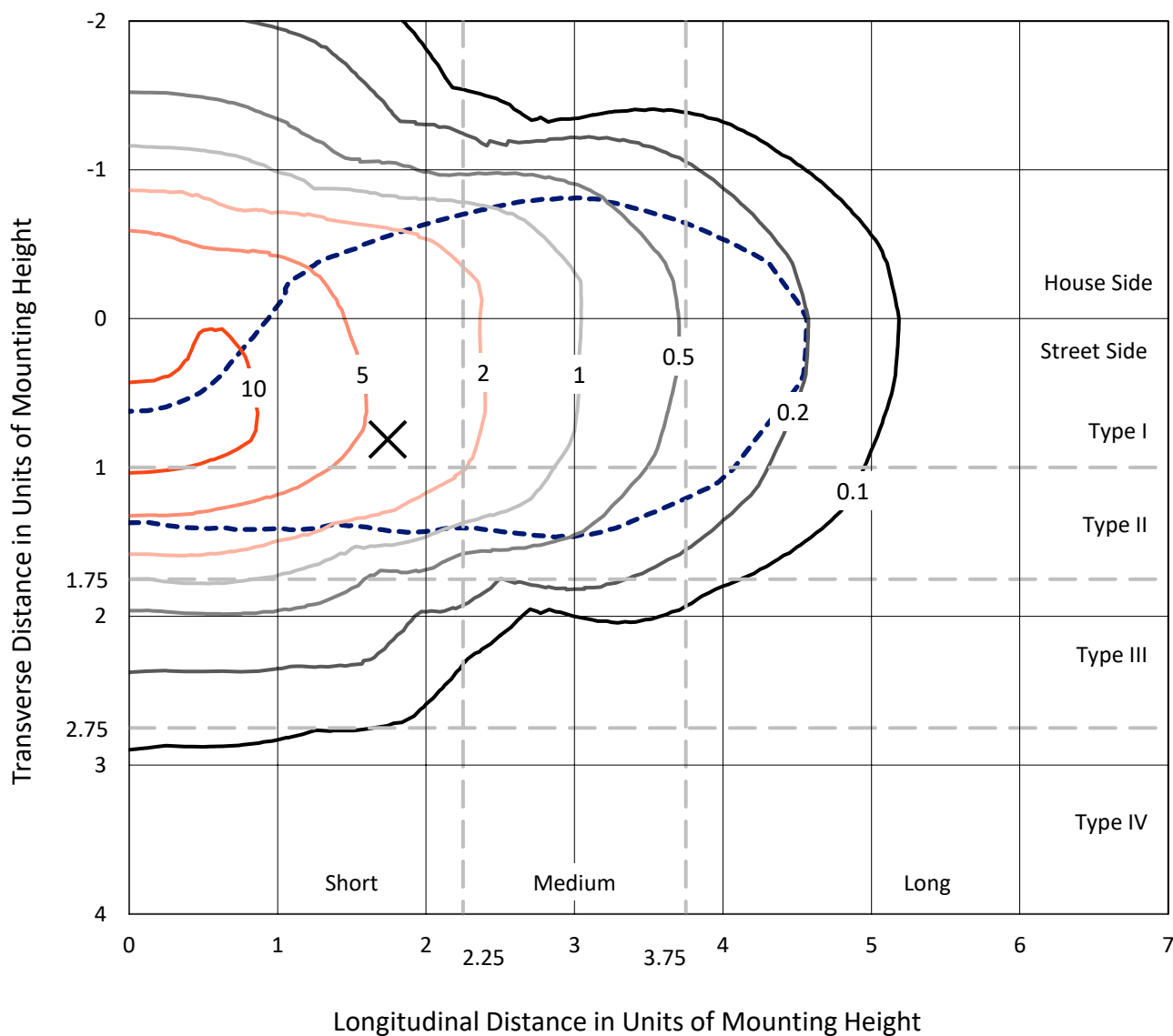
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

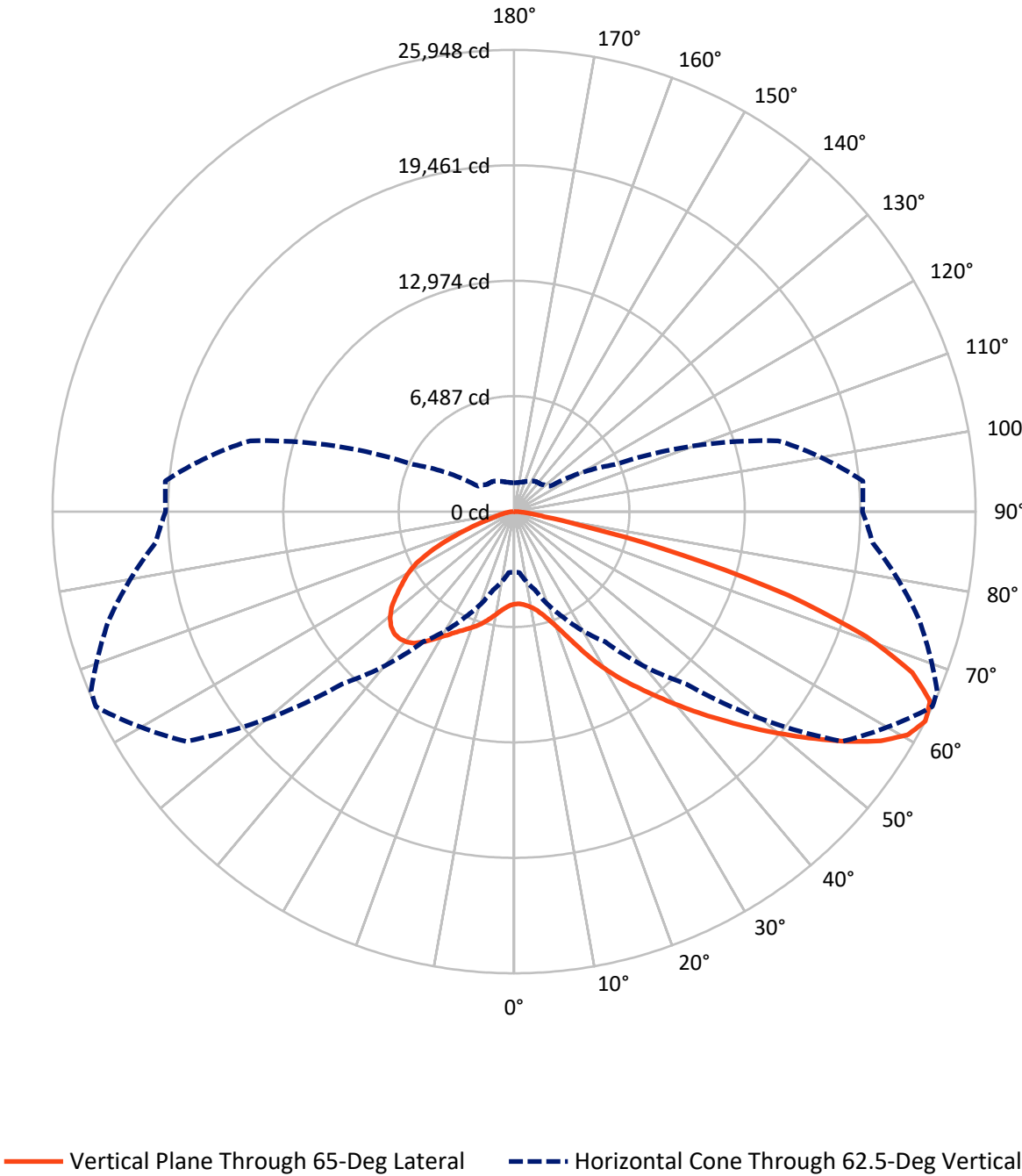


Based on 25 foot mounting height. Maximum calculated value = 13.2 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14885.9	0.0	14885.9
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	32287.7	0.0	32287.7
	% Fixture	68.4	0.0	68.4
Total	Lumens	47173.6	0.0	47173.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.3	1.1
10°-20°	1757.5	3.7
20°-30°	3563.5	7.6
30°-40°	6166.6	13.1
40°-50°	9331.9	19.8
50°-60°	10941.1	23.2
60°-70°	9172.8	19.4
70°-80°	5064.1	10.7
80°-90°	657.8	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°	47173.6	100.0
0°-180°	47173.6	100.0

Coefficient of Utilization



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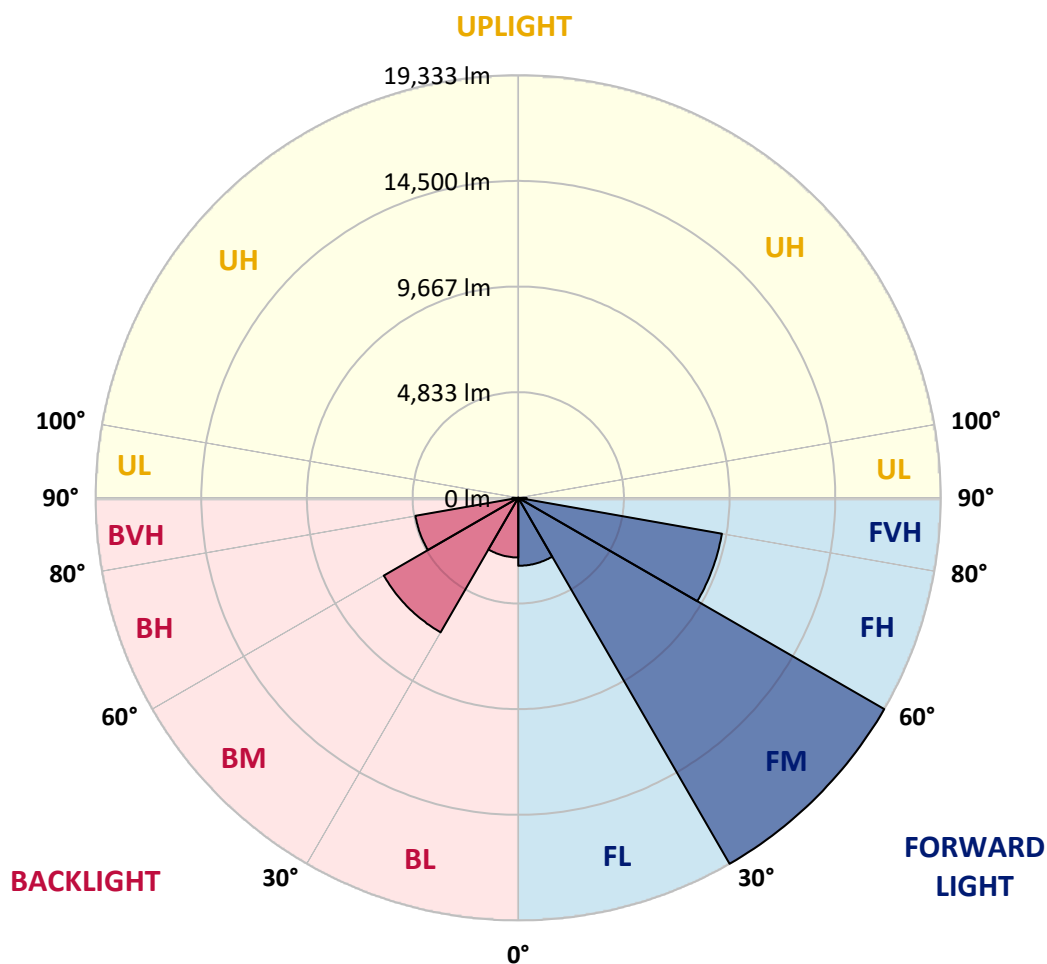
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3109.4	6.6			
FM	(30°-60°)	19333.3	41.0			
FH	(60°-80°)	9461.6	20.1			G4/12000
FVH	(80°-90°)	383.4	0.8			G3/500
BL	(0°-30°)	2729.9	5.8	B4/5000		
BM	(30°-60°)	7106.3	15.1	B4/8500		
BH	(60°-80°)	4775.3	10.1	B4/5000		G4/5000
BVH	(80°-90°)	274.4	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5198.3	5198.3	5198.3	5198.3	5198.3	5198.3	5198.3	5198.3	5198.3	5198.3	5198.3
2.5°	5164.1	5149.4	5161.6	5161.6	5166.5	5164.1	5181.2	5186.1	5193.5	5208.1	5208.1
5°	5112.7	5110.2	5132.3	5151.9	5171.4	5188.5	5210.6	5242.4	5247.3	5264.4	5286.4
7.5°	5095.6	5080.8	5115.2	5139.6	5186.1	5227.7	5286.4	5340.2	5362.3	5369.7	5411.3
10°	5227.7	5203.2	5235.1	5249.7	5288.9	5330.5	5399.0	5484.7	5509.2	5538.5	5585.0
12.5°	5452.9	5425.9	5472.5	5494.5	5531.2	5567.9	5614.3	5697.6	5709.9	5763.7	5807.8
15°	5761.2	5729.4	5758.8	5785.7	5846.9	5881.1	5927.7	6008.4	6008.4	6050.1	6081.8
17.5°	6179.7	6138.1	6160.1	6170.0	6209.1	6260.5	6338.8	6409.8	6446.5	6431.9	6387.8
20°	6803.8	6752.4	6752.4	6703.5	6688.8	6730.5	6833.2	6931.0	6970.3	6894.4	6786.7
22.5°	7741.2	7667.8	7626.2	7459.7	7393.6	7398.6	7501.4	7621.3	7653.1	7518.5	7276.2
25°	8933.1	8818.1	8761.8	8517.0	8367.7	8238.0	8318.8	8473.0	8517.0	8350.6	7959.0
27.5°	10124.9	10132.3	10078.5	9784.8	9537.6	9300.2	9258.6	9420.2	9466.6	9278.2	8793.6
30°	11796.6	11622.8	11520.0	11167.6	10815.2	10482.3	10311.0	10377.1	10389.3	10164.1	9601.3
32.5°	13238.1	13194.0	12973.7	12665.4	12212.7	11691.4	11405.0	11299.7	11280.1	10959.5	10291.4
35°	14880.3	14855.8	14623.4	14256.2	13766.8	13042.3	12525.9	12224.9	12200.4	11750.1	10974.3
37.5°	16549.4	16549.4	16321.9	15920.5	15413.8	14508.4	13722.7	13245.5	13167.2	12579.7	11669.3
40°	17880.8	17800.0	17841.7	17672.8	17092.8	16130.9	15051.6	14359.0	14253.8	13549.0	12408.4
42.5°	18637.2	18610.2	18859.8	19048.3	18810.9	18042.4	16515.2	15565.6	15418.8	14616.0	13260.1
45°	18806.0	18776.7	19222.0	19912.3	20245.1	19929.4	18106.0	16835.8	16657.2	15732.0	14173.0
47.5°	18416.9	18358.2	19011.6	20100.7	21167.8	21723.3	19829.0	18213.7	17954.3	16818.7	15110.3
50°	17247.0	17190.7	18179.4	19625.9	21478.6	22942.2	21698.8	19674.8	19278.3	17983.6	16057.5
52.5°	14704.1	14731.0	16280.3	18267.6	21069.9	23700.9	23309.2	21214.2	20737.0	19175.6	16945.9
55°	11454.0	11512.7	13416.7	15604.8	19435.0	23585.8	24408.1	22800.2	22325.4	20296.4	17863.7
57.5°	8201.3	8460.8	10244.9	12410.9	16294.9	21762.5	24648.0	24307.8	23847.6	21520.2	18761.9
60°	5315.8	5362.3	7197.9	9381.0	12408.4	18522.1	24161.0	25450.7	25091.0	22768.3	19513.3
62.5°	3406.8	3438.7	4557.2	6561.5	8930.6	13703.1	22521.2	25947.6	25837.4	23593.1	20235.2
65°	2503.7	2479.3	3061.7	4336.9	6015.7	8450.9	19337.0	25707.7	25925.5	24109.5	20832.4
67.5°	2090.1	2055.8	2342.2	3002.9	4432.3	4799.4	14307.7	24148.7	24946.6	24050.8	21270.5
70°	1904.1	1874.7	2048.5	2229.6	3458.2	3213.5	7212.5	20993.9	22222.6	23382.7	21199.6
72.5°	1612.8	1561.5	1798.9	1980.0	2689.7	2464.5	2981.0	16126.0	17623.8	21241.2	20201.0
75°	1250.6	1216.4	1419.5	1742.6	2021.6	1923.7	1884.6	9792.1	11427.0	16427.1	17672.8
77.5°	991.2	944.7	1130.7	1358.3	1818.5	1451.3	1373.0	4217.0	5837.1	10487.2	13223.4
80°	746.5	704.9	859.1	1074.4	1397.5	1094.0	888.4	1720.6	2200.3	5313.4	6649.7
82.5°	531.1	494.4	599.6	788.0	939.8	981.4	545.8	964.3	1084.2	2048.5	1485.6
85°	340.2	318.2	401.4	494.4	597.2	631.4	332.8	504.2	553.1	844.4	619.2
87.5°	186.0	151.7	215.4	230.0	276.5	252.0	159.1	183.6	198.2	306.0	261.9
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°	5198.3	5198.3	5198.3	5198.3	5198.3	5198.3	5198.3	5198.3	5198.3	5198.3	5198.3
2.5°	5217.9	5225.2	5249.7	5257.0	5274.2	5296.2	5310.9	5325.6	5325.6	5340.2	5340.2
5°	5288.9	5306.0	5357.4	5384.3	5428.4	5472.5	5499.3	5531.2	5550.8	5560.5	5565.4
7.5°	5425.9	5452.9	5526.3	5572.8	5648.7	5709.9	5751.5	5795.5	5805.3	5832.2	5822.4
10°	5612.0	5643.8	5727.0	5815.0	5905.6	5981.5	6020.6	6052.5	6064.7	6069.6	6057.3
12.5°	5824.9	5871.4	5979.0	6086.8	6182.2	6248.3	6258.0	6250.8	6216.4	6187.1	6187.1
15°	6086.8	6128.4	6248.3	6365.8	6458.7	6471.0	6409.8	6370.7	6329.1	6321.7	6321.7
17.5°	6400.0	6422.0	6532.1	6647.2	6654.5	6612.9	6522.4	6485.7	6446.5	6419.6	6422.0
20°	6764.7	6757.3	6835.6	6884.6	6833.2	6706.0	6568.9	6507.7	6468.6	6436.7	6439.2
22.5°	7200.3	7144.0	7134.2	7122.0	6985.0	6718.2	6532.1	6453.8	6392.6	6348.6	6363.3
25°	7834.2	7618.8	7469.5	7386.4	7077.9	6652.0	6414.7	6240.9	6125.9	6050.1	6079.4
27.5°	8627.1	8265.0	7888.0	7684.9	7077.9	6517.5	6130.8	5849.4	5660.9	5582.6	5621.7
30°	9383.5	9004.1	8448.5	8044.7	7060.8	6297.2	5673.2	5281.5	5061.2	4982.9	5029.5
32.5°	10029.5	9615.9	9043.3	8438.7	7019.2	5939.9	5105.3	4672.2	4459.2	4366.2	4412.7
35°	10629.1	10188.6	9640.4	8871.9	6909.1	5416.1	4481.2	4150.8	3913.4	3764.1	3813.1
37.5°	11243.4	10719.8	10205.7	9263.5	6710.9	4804.3	4001.5	3720.0	3441.0	3240.4	3294.2
40°	11911.6	11285.0	10810.3	9496.0	6385.3	4221.8	3629.5	3372.6	3076.4	2863.4	2905.1
42.5°	12692.4	11963.0	11483.3	9615.9	5939.9	3808.2	3387.2	3135.2	2856.2	2682.4	2716.7
45°	13507.3	12709.5	12097.6	9613.5	5443.1	3614.9	3308.9	3059.3	2750.9	2569.8	2599.2
47.5°	14361.5	13490.2	12628.7	9456.9	5012.4	3641.7	3264.8	2895.3	2555.1	2378.9	2403.3
50°	15218.1	14344.4	13142.7	9163.2	4828.8	3583.0	3100.9	2665.2	2263.8	2104.7	2114.6
52.5°	16067.3	15252.3	13585.7	8744.7	4642.7	3365.2	2890.4	2366.6	2144.0	2033.8	2033.8
55°	16921.5	16150.5	14067.8	8135.2	4177.8	3110.7	2538.0	2254.1	2048.5	1948.1	1938.4
57.5°	17778.1	17188.2	14525.5	7525.9	3592.8	2797.4	2344.6	2117.0	1953.0	1867.3	1852.7
60°	18668.9	18375.3	14997.8	6965.4	3015.2	2396.0	2202.7	2006.8	1840.5	1745.1	1737.7
62.5°	19586.7	19682.2	15367.3	6243.4	2484.1	2151.3	2075.4	1874.7	1713.2	1622.7	1620.2
65°	20511.9	20942.6	15609.6	5242.4	2014.2	1918.8	1938.4	1730.3	1566.3	1488.0	1485.6
67.5°	21209.4	21850.5	15541.2	3967.3	1652.0	1698.5	1767.0	1578.6	1424.4	1363.2	1365.7
70°	21287.7	21742.9	14865.7	2716.7	1382.8	1483.2	1576.1	1429.3	1270.2	1226.2	1228.6
72.5°	20245.1	20274.4	12983.6	1774.4	1169.8	1302.1	1375.4	1277.6	1123.4	1079.3	1076.9
75°	17511.3	16767.3	9532.7	1169.8	979.0	1118.5	1186.9	1118.5	969.1	979.0	944.7
77.5°	13267.5	11874.9	5788.2	832.1	817.4	939.8	1032.8	983.9	856.6	961.9	846.9
80°	6835.6	6424.5	2582.1	621.7	646.2	751.3	849.2	785.7	677.9	646.2	589.8
82.5°	1566.3	1820.9	1018.1	445.5	467.5	540.9	648.5	589.8	487.1	411.1	406.3
85°	548.3	599.6	450.3	279.0	274.1	337.7	440.5	394.0	330.4	264.3	279.0
87.5°	173.7	227.7	168.9	112.5	117.5	151.7	203.2	186.0	154.2	100.3	105.3
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)