

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: P968849

Luminaire Tested: **NAV-SB5C-750-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968849
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-SB5C-750-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41574 lumens
Efficiency: N/A
Efficacy: 166.6 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): 249.5
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



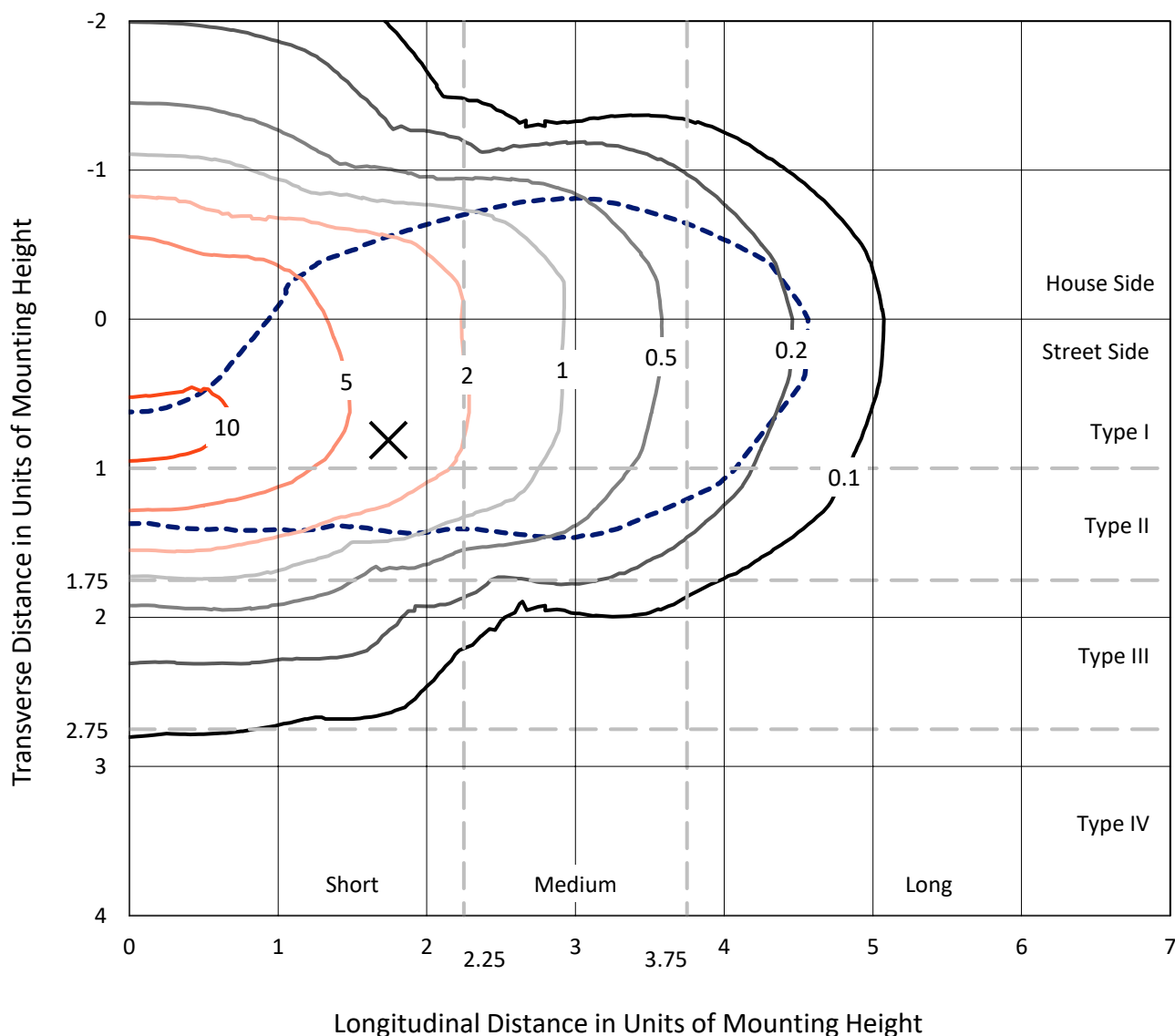
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

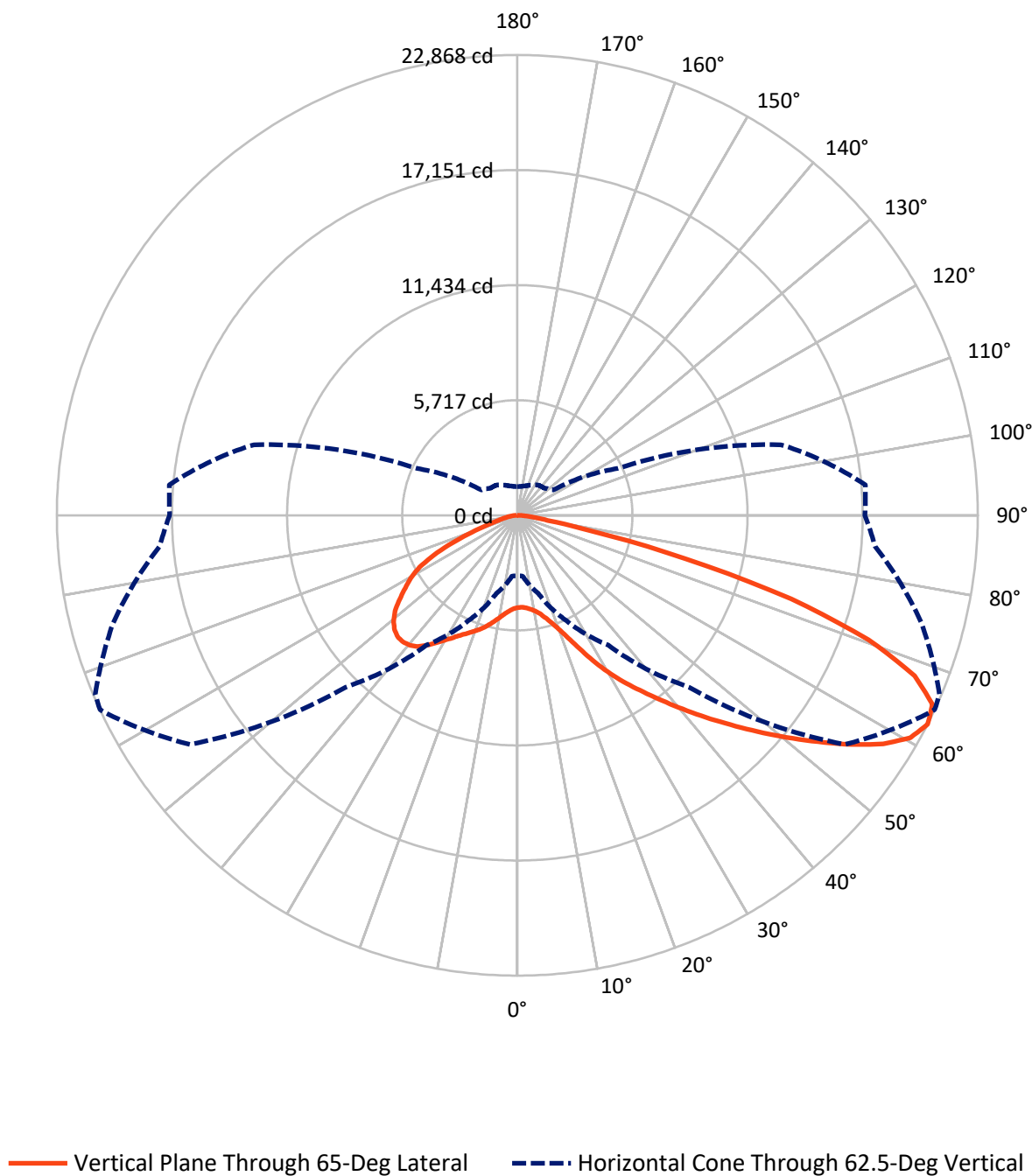


Based on 25 foot mounting height. Maximum calculated value = 11.6 fc

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	13118.9	0.0	13118.9
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	28455.1	0.0	28455.1
	% Fixture	68.4	0.0	68.4
Total	Lumens	41574.0	0.0	41574.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	456.8	1.1
10°-20°	1548.9	3.7
20°-30°	3140.5	7.6
30°-40°	5434.6	13.1
40°-50°	8224.2	19.8
50°-60°	9642.4	23.2
60°-70°	8084.0	19.4
70°-80°	4463.0	10.7
80°-90°	579.7	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°	41574.0	100.0
0°-180°	41574.0	100.0

Coefficient of Utilization



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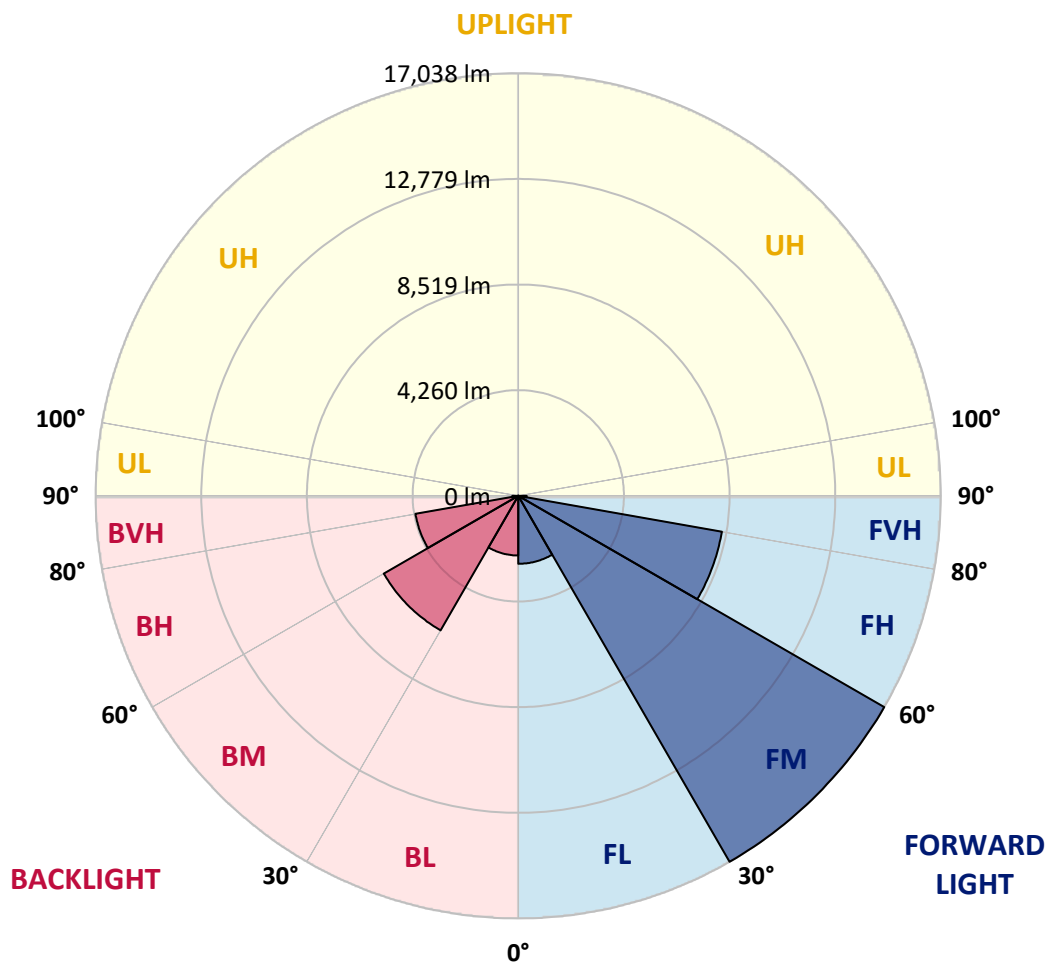
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2740.3	6.6			
FM	(30°-60°)	17038.4	41.0			
FH	(60°-80°)	8338.5	20.1			G4/12000
FVH	(80°-90°)	337.9	0.8			G3/500
BL	(0°-30°)	2405.9	5.8	B3/2500		
BM	(30°-60°)	6262.8	15.1	B4/8500		
BH	(60°-80°)	4208.4	10.1	B4/5000		G4/5000
BVH	(80°-90°)	241.9	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°	4581.2	4581.2	4581.2	4581.2	4581.2	4581.2	4581.2	4581.2	4581.2	4581.2	4581.2
2.5°	4551.1	4538.2	4549.0	4549.0	4553.3	4551.1	4566.2	4570.5	4576.9	4590.0	4590.0
5°	4505.8	4503.6	4523.0	4540.3	4557.6	4572.6	4592.1	4620.1	4624.4	4639.6	4658.9
7.5°	4490.7	4477.7	4508.0	4529.5	4570.5	4607.2	4658.9	4706.4	4725.8	4732.2	4768.9
10°	4607.2	4585.5	4613.6	4626.5	4661.1	4697.8	4758.2	4833.6	4855.2	4881.0	4922.0
12.5°	4805.6	4781.8	4822.8	4842.3	4874.6	4907.0	4948.0	5021.3	5032.0	5079.5	5118.3
15°	5077.3	5049.4	5075.2	5099.0	5152.9	5183.0	5224.0	5295.3	5295.3	5331.8	5359.9
17.5°	5446.2	5409.5	5428.9	5437.5	5472.1	5517.4	5586.4	5649.0	5681.3	5668.4	5629.5
20°	5996.2	5950.9	5950.9	5907.8	5894.9	5931.5	6022.1	6108.4	6142.9	6076.0	5981.1
22.5°	6822.3	6757.6	6720.9	6574.2	6516.0	6520.3	6610.9	6716.6	6744.7	6626.0	6412.5
25°	7872.7	7771.3	7721.7	7506.1	7374.5	7260.2	7331.3	7467.2	7506.1	7359.4	7014.3
27.5°	8923.1	8929.6	8882.1	8623.3	8405.5	8196.2	8159.6	8302.0	8342.9	8176.8	7749.8
30°	10396.3	10243.1	10152.5	9841.9	9531.4	9238.0	9087.0	9145.3	9156.1	8957.7	8461.6
32.5°	11666.8	11627.9	11433.8	11162.0	10763.0	10303.5	10051.2	9958.5	9941.2	9658.7	9069.8
35°	13114.1	13092.4	12887.5	12564.0	12132.6	11494.1	11039.0	10773.8	10752.1	10355.4	9671.6
37.5°	14585.0	14585.0	14384.4	14030.7	13584.2	12786.2	12093.8	11673.2	11604.1	11086.5	10284.1
40°	15758.4	15687.2	15723.9	15575.1	15063.8	14216.2	13265.0	12654.5	12561.9	11940.6	10935.5
42.5°	16424.9	16401.1	16621.1	16787.2	16578.0	15900.7	14554.8	13718.0	13588.5	12881.1	11686.1
45°	16573.7	16547.8	16940.4	17548.6	17842.0	17563.7	15956.8	14837.4	14679.9	13864.6	12490.6
47.5°	16230.8	16179.0	16754.9	17714.7	18655.1	19144.7	17475.2	16051.7	15823.1	14822.3	13316.8
50°	15199.7	15150.1	16021.6	17296.3	18929.0	20218.8	19123.1	17339.4	16990.0	15849.0	14151.5
52.5°	12958.7	12982.4	14347.7	16099.2	18568.8	20887.6	20542.4	18696.1	18275.4	16899.4	14934.5
55°	10094.3	10146.1	11824.2	13752.4	17128.1	20786.2	21510.9	20093.8	19675.3	17887.3	15743.3
57.5°	7227.8	7456.5	9028.8	10937.7	14360.7	19179.2	21722.2	21422.4	21016.9	18965.7	16534.9
60°	4684.8	4725.8	6343.5	8267.4	10935.5	16323.5	21293.0	22429.7	22112.6	20065.7	17197.0
62.5°	3002.4	3030.4	4016.2	5782.6	7870.6	12076.6	19847.9	22867.5	22770.5	20792.6	17833.4
65°	2206.5	2185.0	2698.3	3822.0	5301.7	7447.9	17041.8	22656.2	22848.2	21247.7	18359.6
67.5°	1842.0	1811.8	2064.1	2646.5	3906.2	4229.7	12609.2	21282.2	21985.3	21196.0	18745.7
70°	1678.0	1652.2	1805.3	1964.9	3047.7	2832.0	6356.4	18502.0	19584.8	20607.1	18683.2
72.5°	1421.4	1376.1	1585.4	1745.0	2370.4	2172.0	2627.1	14211.8	15531.9	18719.8	17803.1
75°	1102.2	1071.9	1251.0	1535.8	1781.7	1695.4	1660.8	8629.8	10070.6	14477.2	15575.1
77.5°	873.5	832.6	996.5	1197.1	1602.6	1279.1	1210.0	3716.3	5144.3	9242.3	11653.7
80°	657.8	621.2	757.1	946.9	1231.6	964.1	783.0	1516.3	1939.1	4682.6	5860.3
82.5°	468.0	435.7	528.5	694.5	828.3	864.9	481.0	849.8	955.5	1805.3	1309.2
85°	299.8	280.4	353.7	435.7	526.2	556.5	293.4	444.3	487.5	744.2	545.7
87.5°	163.9	133.8	189.8	202.7	243.7	222.1	140.2	161.7	174.7	269.6	230.8
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°	4581.2	4581.2	4581.2	4581.2	4581.2	4581.2	4581.2	4581.2	4581.2	4581.2	4581.2
2.5°	4598.6	4605.0	4626.5	4633.0	4648.2	4667.5	4680.5	4693.5	4693.5	4706.4	4706.4
5°	4661.1	4676.2	4721.5	4745.2	4784.0	4822.8	4846.6	4874.6	4891.9	4900.5	4904.8
7.5°	4781.8	4805.6	4870.3	4911.3	4978.1	5032.0	5068.7	5107.6	5116.2	5140.0	5131.3
10°	4945.8	4973.8	5047.2	5124.8	5204.6	5271.5	5306.0	5334.0	5344.9	5349.2	5338.3
12.5°	5133.4	5174.4	5269.3	5364.2	5448.4	5506.6	5515.2	5508.8	5478.5	5452.7	5452.7
15°	5364.2	5400.9	5506.6	5610.1	5692.1	5702.9	5649.0	5614.4	5577.7	5571.3	5571.3
17.5°	5640.3	5659.7	5756.8	5858.2	5864.6	5827.9	5748.2	5715.8	5681.3	5657.6	5659.7
20°	5961.7	5955.2	6024.2	6067.4	6022.1	5909.9	5789.1	5735.2	5700.7	5672.7	5674.8
22.5°	6345.7	6296.1	6287.3	6276.6	6155.8	5920.7	5756.8	5687.7	5633.8	5595.1	5608.0
25°	6904.3	6714.5	6582.9	6509.6	6237.7	5862.5	5653.3	5500.2	5398.8	5331.8	5357.8
27.5°	7603.1	7283.9	6951.8	6772.7	6237.7	5743.9	5403.1	5155.0	4988.9	4919.9	4954.4
30°	8269.6	7935.2	7445.6	7089.7	6222.7	5549.8	4999.7	4654.6	4460.5	4391.5	4432.4
32.5°	8839.0	8474.5	7969.8	7437.0	6186.0	5234.8	4499.3	4117.5	3929.8	3848.0	3889.0
35°	9367.5	8979.2	8496.0	7818.8	6088.9	4773.2	3949.3	3658.1	3448.9	3317.3	3360.5
37.5°	9908.9	9447.2	8994.3	8163.9	5914.2	4234.0	3526.5	3278.5	3032.6	2855.8	2903.2
40°	10497.6	9945.5	9527.1	8368.8	5627.4	3720.6	3198.7	2972.2	2711.2	2523.5	2560.2
42.5°	11185.7	10542.9	10120.2	8474.5	5234.8	3356.2	2985.2	2763.0	2517.1	2364.0	2394.2
45°	11903.9	11200.8	10661.6	8472.3	4797.0	3185.8	2916.1	2696.2	2424.3	2264.7	2290.7
47.5°	12656.7	11888.9	11129.7	8334.3	4417.3	3209.5	2877.3	2551.6	2251.8	2096.5	2118.1
50°	13411.6	12641.6	11582.6	8075.5	4255.6	3157.7	2732.8	2348.9	1995.2	1854.9	1863.6
52.5°	14160.1	13441.8	11973.0	7706.7	4091.7	2965.7	2547.3	2085.8	1889.5	1792.4	1792.4
55°	14912.8	14233.5	12397.9	7169.6	3681.8	2741.5	2236.8	1986.6	1805.3	1716.9	1708.3
57.5°	15667.7	15148.0	12801.2	6632.5	3166.3	2465.3	2066.3	1865.7	1721.2	1645.7	1632.8
60°	16452.9	16194.1	13217.6	6138.5	2657.3	2111.6	1941.2	1768.6	1622.0	1537.9	1531.5
62.5°	17261.7	17345.9	13543.2	5502.3	2189.3	1895.9	1829.0	1652.2	1509.8	1430.1	1427.8
65°	18077.0	18456.7	13756.7	4620.1	1775.1	1691.0	1708.3	1524.9	1380.5	1311.4	1309.2
67.5°	18691.8	19256.9	13696.4	3496.4	1455.9	1496.9	1557.3	1391.2	1255.3	1201.4	1203.6
70°	18760.8	19162.0	13101.0	2394.2	1218.6	1307.1	1389.1	1259.6	1119.4	1080.7	1082.8
72.5°	17842.0	17867.8	11442.4	1563.7	1031.0	1147.5	1212.2	1125.9	990.0	951.2	949.0
75°	15432.7	14777.0	8401.2	1031.0	862.7	985.7	1046.1	985.7	854.1	862.7	832.6
77.5°	11692.6	10465.4	5101.1	733.4	720.4	828.3	910.2	867.0	754.9	847.7	746.3
80°	6024.2	5661.9	2275.5	547.9	569.4	662.2	748.5	692.4	597.5	569.4	519.8
82.5°	1380.5	1604.7	897.3	392.6	411.9	476.7	571.5	519.8	429.3	362.3	358.0
85°	483.2	528.5	396.9	245.9	241.6	297.7	388.3	347.3	291.2	233.0	245.9
87.5°	153.1	200.6	148.8	99.2	103.5	133.8	179.1	163.9	135.9	88.5	92.8
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)