

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: P971024

Luminaire Tested: **NAV-SB6C-827-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971024
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-827-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

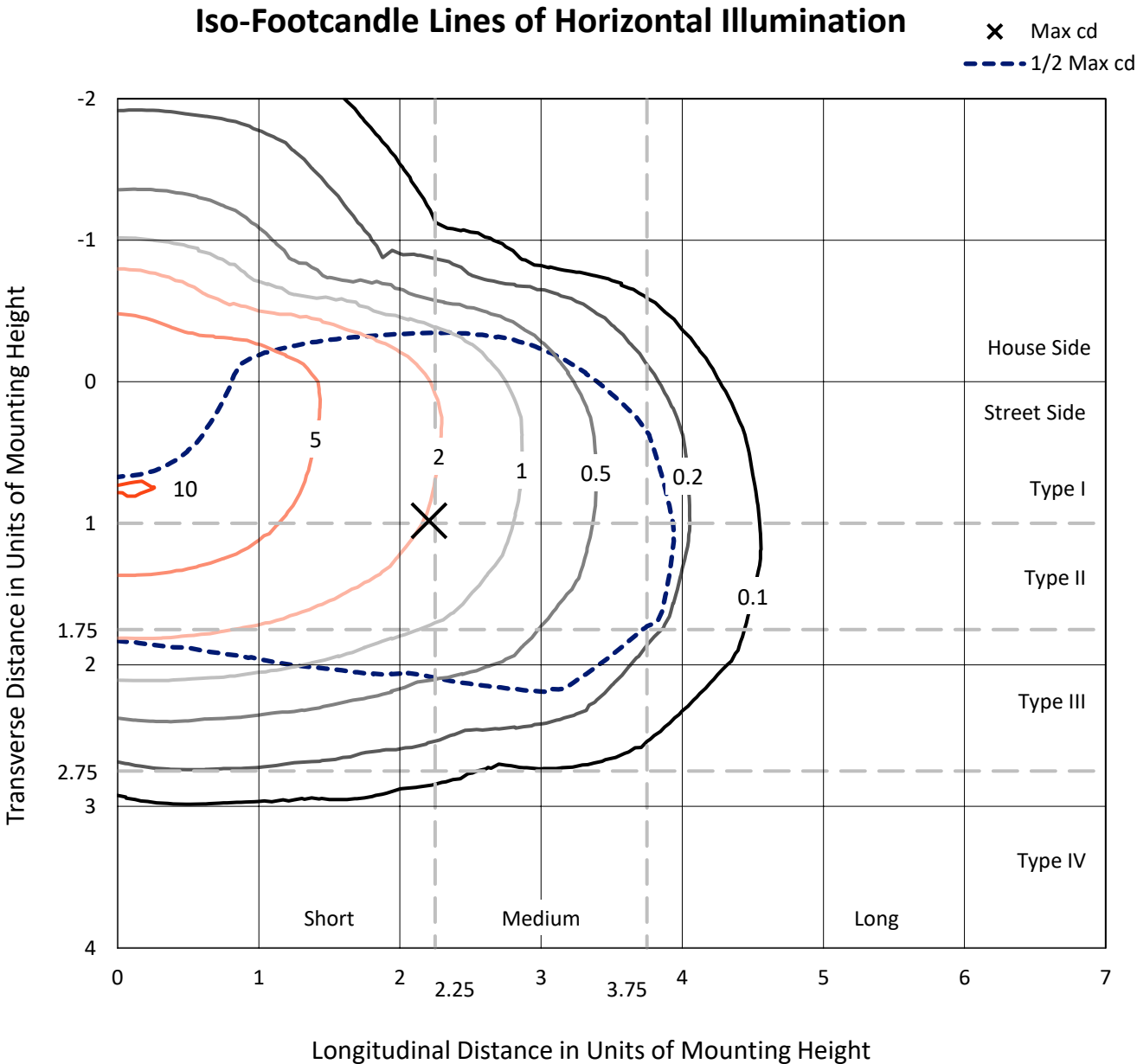
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40504.9 lumens
Efficiency: N/A
Efficacy: 134.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - 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



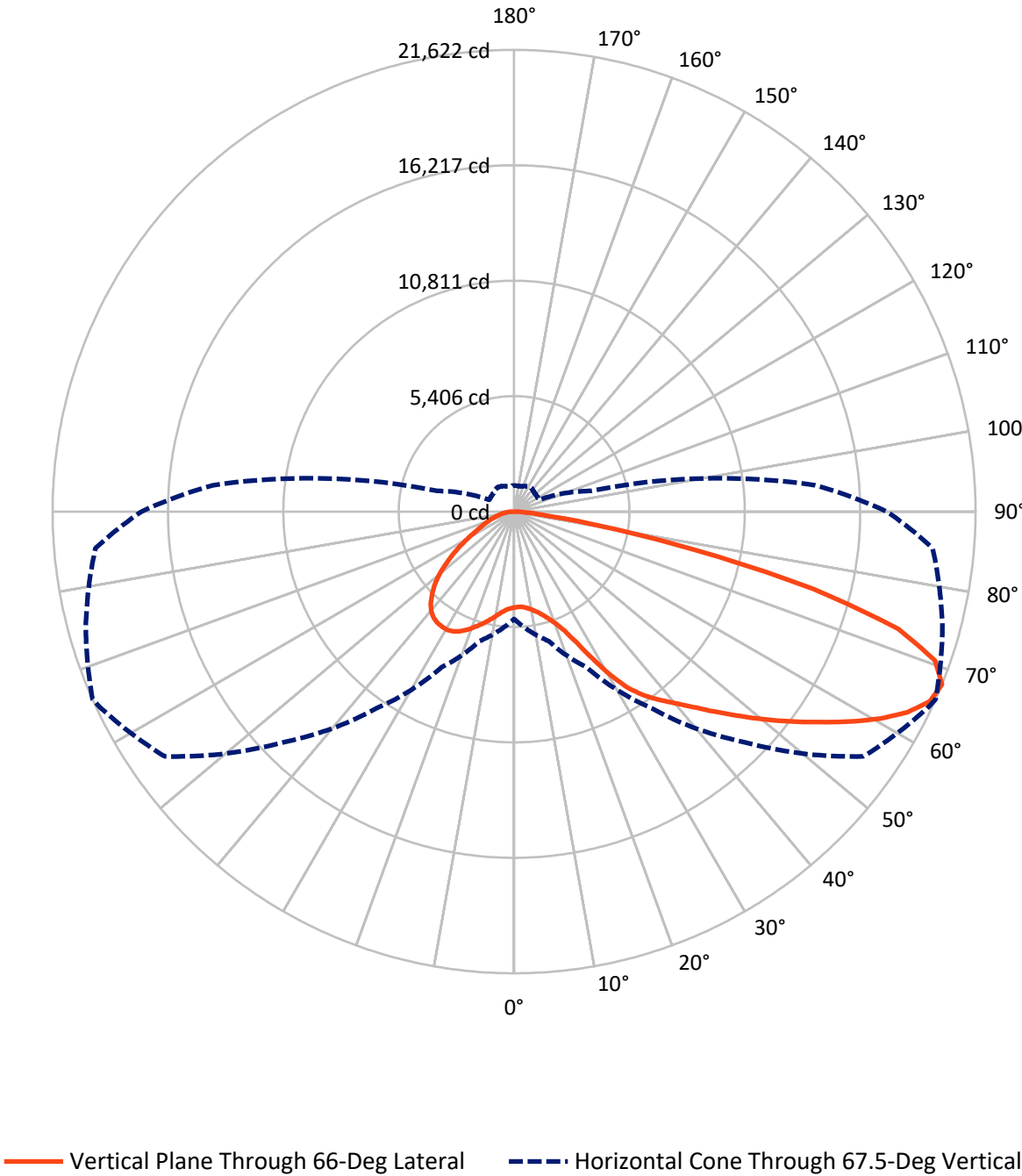
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Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10071.4	0.0	10071.4
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	30433.5	0.0	30433.5
	% Fixture	75.1	0.0	75.1
Total	Lumens	40504.9	0.0	40504.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.4	1.1
10°-20°	1471.6	3.6
20°-30°	2836.4	7.0
30°-40°	4973.3	12.3
40°-50°	7393.7	18.3
50°-60°	9372.2	23.1
60°-70°	9170.4	22.6
70°-80°	4374.4	10.8
80°-90°	467.5	1.2
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°	40504.9	100.0
0°-180°	40504.9	100.0

Coefficient of Utilization



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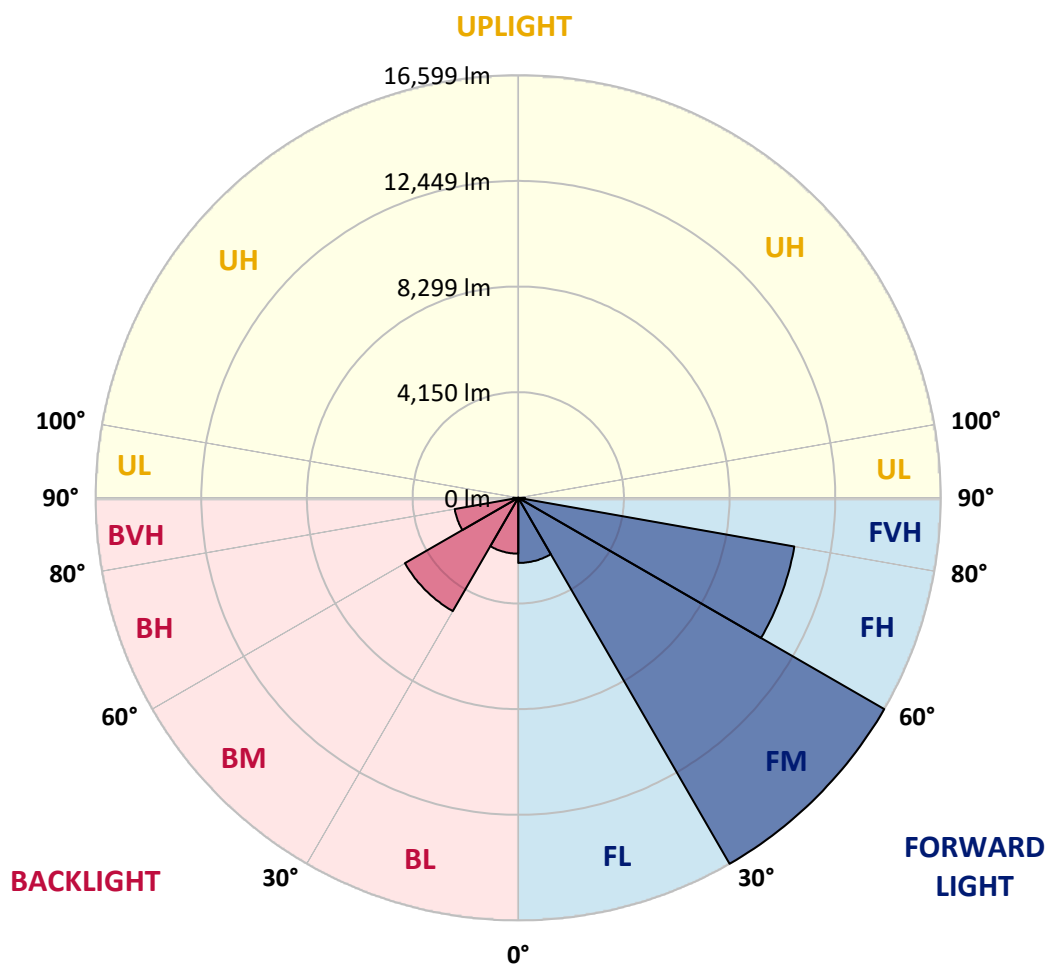
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2559.5	6.3			
FM	(30°-60°)	16598.6	41.0			
FH	(60°-80°)	11010.3	27.2			G4/12000
FVH	(80°-90°)	265.1	0.7			G3/500
BL	(0°-30°)	2193.9	5.4	B3/2500		
BM	(30°-60°)	5140.6	12.7	B4/8500		
BH	(60°-80°)	2534.5	6.3	B4/5000		G4/5000
BVH	(80°-90°)	202.4	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4492.6	4492.6	4492.6	4492.6	4492.6	4492.6	4492.6	4492.6	4492.6	4492.6	4492.6
2.5°	4445.7	4471.3	4464.9	4454.2	4452.1	4456.4	4462.7	4469.1	4467.0	4477.6	4494.6
5°	4432.9	4458.4	4456.4	4456.4	4464.9	4481.9	4492.6	4503.1	4492.6	4505.3	4528.8
7.5°	4441.4	4460.6	4469.1	4477.6	4498.9	4530.8	4556.3	4579.8	4567.0	4582.0	4611.7
10°	4550.0	4564.8	4573.4	4573.4	4588.3	4624.5	4650.0	4692.6	4681.9	4705.4	4743.7
12.5°	4747.9	4762.8	4762.8	4754.3	4764.9	4788.4	4796.9	4843.6	4824.6	4862.8	4901.1
15°	4990.5	5020.3	4996.9	4982.0	4986.2	5009.7	5007.5	5043.7	5024.5	5056.5	5090.6
17.5°	5258.7	5297.0	5258.7	5256.5	5248.0	5273.5	5275.7	5307.7	5273.5	5297.0	5320.4
20°	5575.8	5629.0	5597.0	5607.7	5588.5	5599.2	5609.8	5656.7	5603.5	5620.5	5614.0
22.5°	6022.7	6086.6	6052.4	6092.9	6080.1	6071.6	6069.5	6152.5	6069.5	6075.9	6014.2
25°	6673.9	6750.5	6690.9	6746.2	6746.2	6773.9	6805.8	6912.3	6773.9	6733.4	6573.8
27.5°	7635.8	7712.4	7595.4	7629.4	7618.8	7686.9	7652.9	7916.7	7767.8	7701.7	7380.4
30°	8793.6	8929.7	8708.4	8699.9	8689.2	8797.8	8846.8	9021.2	8870.1	8804.1	8416.9
32.5°	10044.9	10187.5	9923.5	9847.0	9806.5	9872.5	9832.1	9972.5	9868.3	9766.1	9287.2
35°	11368.6	11509.0	11257.9	11108.9	10947.2	10808.9	10664.2	10700.4	10602.5	10447.1	9951.2
37.5°	12619.9	12877.5	12611.4	12451.8	12153.8	11883.6	11479.3	11311.2	11219.6	11077.1	10576.9
40°	13894.7	14041.6	13839.3	13703.2	13379.7	12956.2	12309.2	11953.9	11830.4	11692.1	11268.5
42.5°	14833.2	14973.7	14865.2	14771.5	14518.3	14026.6	13190.3	12745.5	12566.7	12411.4	12051.7
45°	15578.1	15682.4	15614.2	15648.3	15539.8	15063.1	14103.3	13594.7	13409.5	13220.0	12937.0
47.5°	15878.2	15988.8	16097.3	16299.6	16484.7	16133.5	15084.3	14514.0	14318.2	14124.6	13845.8
50°	15844.1	15956.9	16271.9	16701.8	17276.4	17159.3	16118.6	15493.0	15312.1	15090.8	14833.2
52.5°	15571.7	15699.4	16103.8	16818.8	17733.9	17927.6	17172.0	16503.8	16333.6	16069.6	15812.2
55°	14856.7	14933.2	15539.8	16552.7	17842.5	18463.8	18204.2	17580.7	17410.4	17042.3	16761.3
57.5°	13530.8	13641.4	14524.7	15835.6	17570.0	18827.8	19110.8	18712.8	18549.0	18019.1	17725.4
60°	11800.6	11977.2	12988.1	14631.1	16876.2	18825.7	19934.4	19825.9	19689.6	18980.9	18674.6
62.5°	9842.7	10047.0	11019.6	12928.5	15663.2	18291.4	20449.5	20758.0	20687.8	19868.4	19476.8
65°	7559.2	7699.7	8668.0	10725.9	13775.5	17144.4	20509.0	21394.3	21407.1	20543.0	19896.1
67.5°	5033.1	5437.4	6278.0	8048.7	11247.3	15269.5	19985.4	21498.6	21622.1	20775.0	19685.4
70°	2455.9	2988.0	3811.6	5231.0	8048.7	12394.4	18617.1	20643.1	20917.6	20098.3	18429.8
72.5°	1019.4	1191.8	1640.8	2581.5	4620.2	8363.7	15867.5	18323.4	18832.0	17808.4	15495.1
75°	687.4	744.9	938.5	1323.7	2104.7	4124.4	11443.1	13662.7	14482.1	13449.9	10994.0
77.5°	529.9	566.1	683.2	925.8	1251.3	1559.9	6124.8	8233.8	8657.4	8014.6	5720.5
80°	417.1	444.7	510.8	674.7	887.4	834.2	2087.7	3730.7	3975.4	3334.8	1838.7
82.5°	361.8	372.4	366.0	457.6	589.5	487.4	685.3	1376.9	1519.5	1102.4	600.1
85°	261.8	291.5	304.3	283.0	312.8	246.8	281.0	487.4	536.3	478.9	338.4
87.5°	106.4	157.4	193.6	183.1	114.9	70.2	87.2	142.6	163.9	178.8	110.7
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°	4492.6	4492.6	4492.6	4492.6	4492.6	4492.6	4492.6	4492.6	4492.6	4492.6	4492.6
2.5°	4496.8	4511.6	4522.3	4535.1	4543.6	4556.3	4582.0	4596.8	4599.0	4609.6	4607.5
5°	4537.3	4558.5	4582.0	4616.0	4654.3	4686.2	4735.1	4769.2	4781.9	4792.6	4790.4
7.5°	4624.5	4654.3	4696.9	4756.4	4811.8	4854.3	4914.0	4954.3	4994.8	5009.7	5011.8
10°	4754.3	4796.9	4858.6	4939.5	4999.0	5054.4	5116.1	5150.1	5190.6	5207.6	5216.1
12.5°	4916.0	4960.7	5041.6	5154.4	5209.8	5248.0	5269.3	5260.8	5269.3	5284.2	5288.5
15°	5101.2	5150.1	5241.6	5362.9	5401.2	5367.2	5320.4	5277.8	5271.5	5275.7	5290.6
17.5°	5320.4	5356.5	5462.9	5565.1	5537.5	5397.0	5294.8	5226.8	5192.6	5182.1	5197.0
20°	5626.8	5626.8	5714.1	5777.9	5592.8	5354.4	5194.8	5084.2	5013.9	4984.2	4977.7
22.5°	5999.2	5965.2	6020.5	5975.9	5582.2	5235.3	5013.9	4822.4	4716.0	4673.4	4667.0
25°	6471.7	6431.3	6416.4	6139.7	5505.6	5045.9	4686.2	4454.2	4360.6	4337.2	4341.4
27.5°	7184.6	7082.5	6888.8	6229.1	5365.1	4747.9	4303.2	4088.2	4035.0	4037.1	4043.5
30°	8133.8	7929.5	7454.9	6244.0	5135.2	4326.5	3911.5	3758.4	3732.7	3743.4	3779.6
32.5°	9012.7	8819.1	8033.7	6175.9	4781.9	3913.7	3560.4	3458.2	3419.9	3432.7	3449.7
35°	9702.2	9649.0	8570.0	6080.1	4347.8	3526.3	3245.5	3158.2	3083.7	3066.7	3079.4
37.5°	10353.4	10332.2	8972.3	5946.0	3918.0	3251.8	2992.2	2877.3	2768.7	2709.2	2711.2
40°	11068.6	11047.2	9236.2	5739.6	3537.0	3013.5	2764.4	2613.3	2479.3	2370.7	2381.4
42.5°	11873.0	11747.4	9361.7	5443.8	3213.5	2811.3	2579.3	2375.0	2198.4	2098.4	2104.7
45°	12751.9	12468.8	9359.6	5067.1	2941.1	2626.2	2381.4	2092.0	1928.1	1834.4	1830.2
47.5°	13684.1	13158.3	9244.7	4650.0	2677.2	2421.9	2074.9	1853.6	1745.1	1687.7	1674.8
50°	14645.9	13803.2	9048.9	4171.1	2406.9	2189.9	1883.4	1732.4	1649.3	1596.1	1577.0
52.5°	15550.4	14388.4	8812.6	3628.5	2132.4	1964.3	1798.3	1681.2	1594.0	1534.4	1508.9
55°	16391.1	14892.8	8478.6	3073.1	1909.0	1813.2	1757.9	1660.0	1559.9	1489.7	1462.1
57.5°	17138.0	15220.5	7901.8	2551.6	1749.4	1708.9	1715.3	1623.8	1508.9	1449.2	1411.0
60°	17759.5	15461.0	7048.4	2068.6	1619.5	1606.8	1649.3	1555.6	1421.6	1353.5	1323.7
62.5°	18131.8	15456.8	6001.4	1694.0	1508.9	1513.1	1562.1	1470.6	1334.3	1270.5	1251.3
65°	18100.0	15078.0	4852.1	1449.2	1402.4	1406.7	1470.6	1376.9	1262.0	1223.6	1221.6
67.5°	17459.3	14154.3	3722.2	1289.7	1285.5	1304.5	1379.0	1313.0	1217.3	1213.1	1219.4
70°	15724.9	12236.9	2681.5	1161.9	1164.1	1191.8	1289.7	1272.6	1193.9	1202.4	1200.3
72.5°	12609.3	9329.9	1800.4	1027.9	1030.0	1074.7	1204.6	1240.8	1170.4	1283.3	1300.3
75°	8397.7	5818.4	1157.7	885.3	887.4	944.9	1130.1	1179.0	1106.6	1279.0	1289.7
77.5°	4035.0	2615.5	838.4	744.9	744.9	798.1	976.8	1055.5	942.8	993.8	910.8
80°	1393.9	983.2	659.7	600.1	587.3	623.5	823.6	915.1	812.9	749.1	702.3
82.5°	549.1	510.8	529.9	466.1	423.5	446.9	640.6	755.5	598.0	540.6	538.4
85°	315.0	332.0	374.5	308.6	244.8	274.5	470.4	542.6	451.2	398.0	406.5
87.5°	85.1	117.1	172.4	159.6	110.7	117.1	223.4	300.1	259.6	200.1	206.4
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)