

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: P971040

Luminaire Tested: **NAV-SB6C-830-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971040
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-830-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41462.3 lumens
Efficiency: N/A
Efficacy: 137.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

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



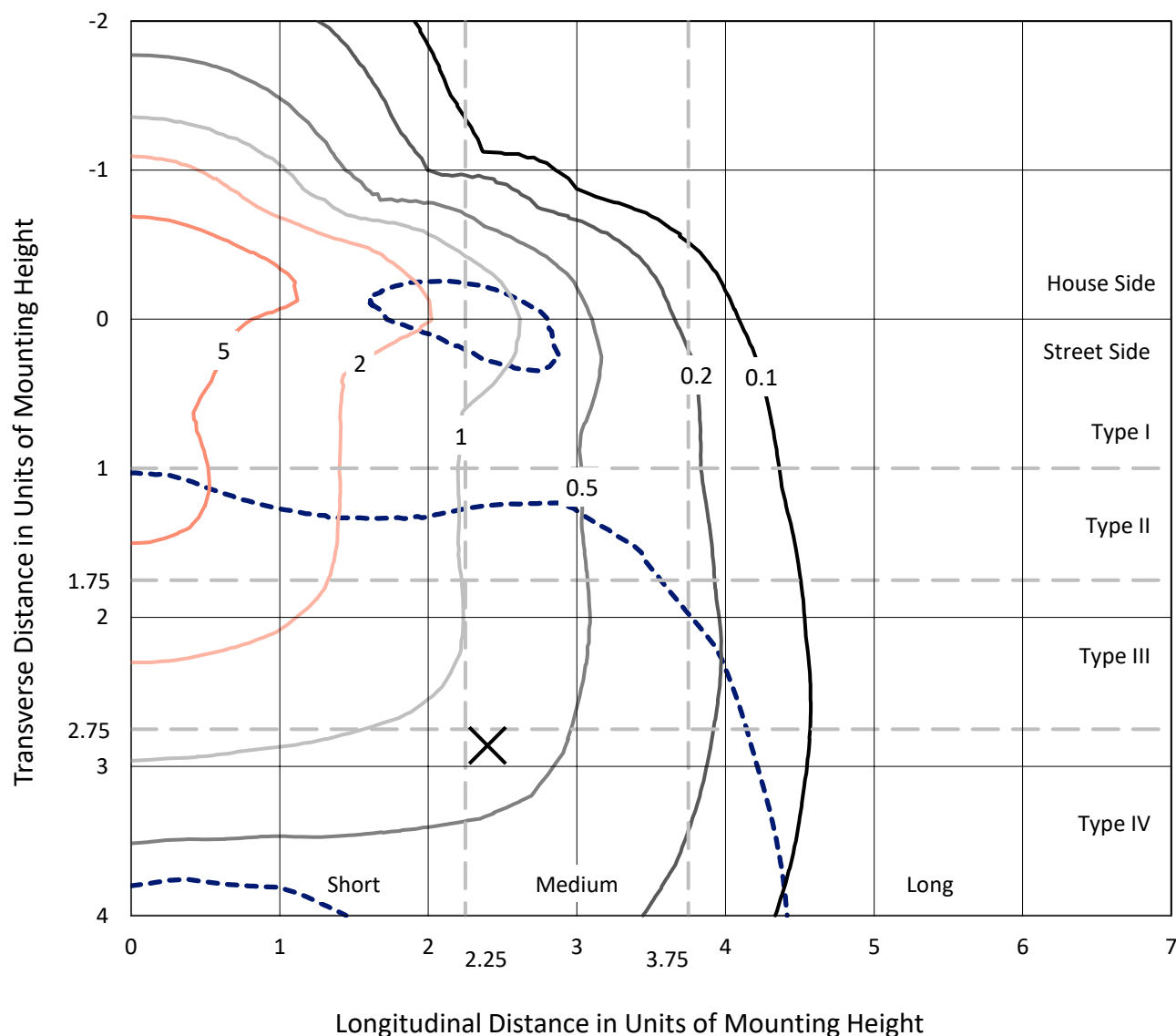
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

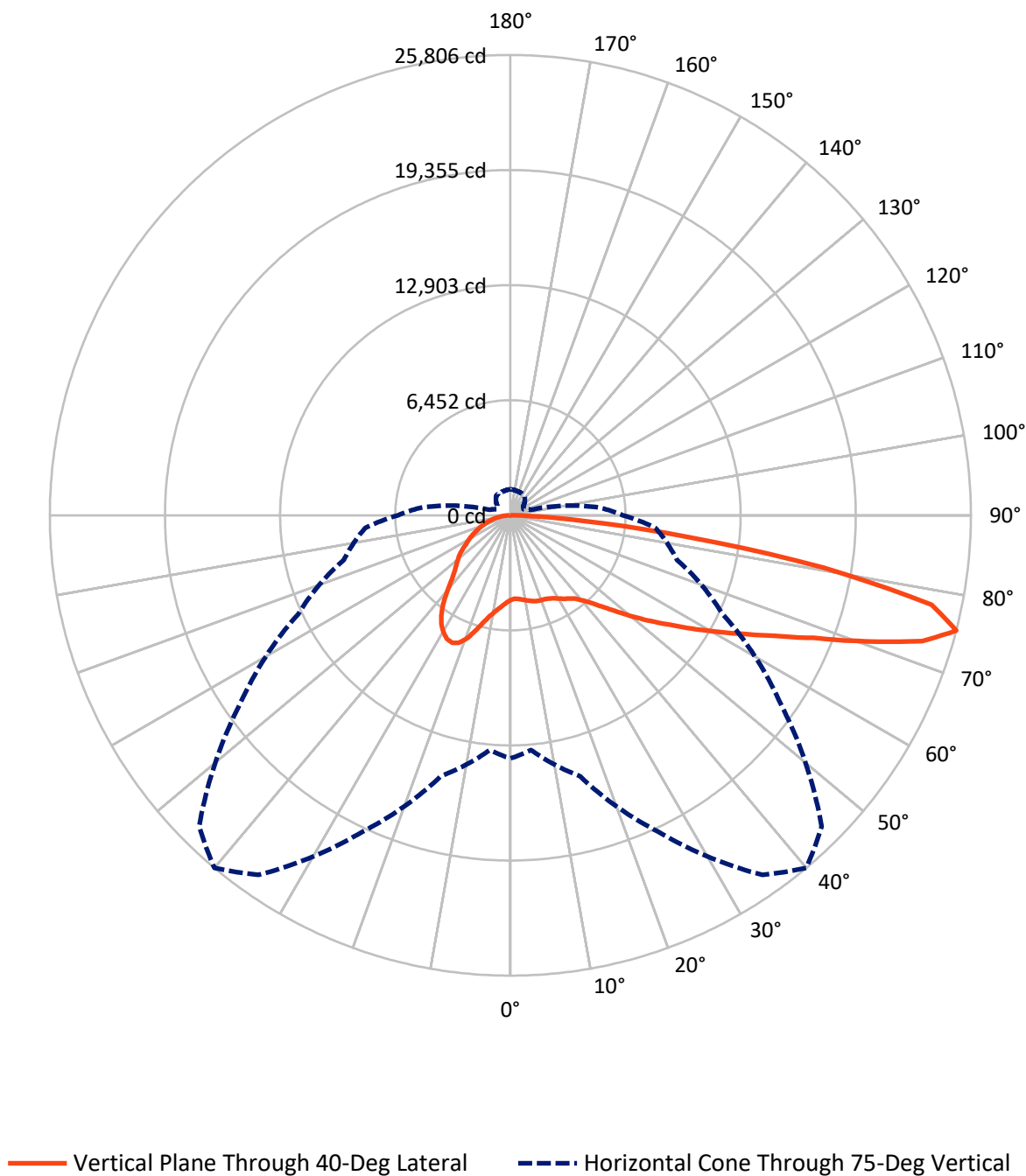
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12846.4	0.0	12846.4
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	28615.9	0.0	28615.9
	% Fixture	69.0	0.0	69.0
Total	Lumens	41462.3	0.0	41462.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	473.3	1.1
10°-20°	1589.0	3.8
20°-30°	2901.4	7.0
30°-40°	4114.9	9.9
40°-50°	5556.4	13.4
50°-60°	7474.8	18.0
60°-70°	9487.2	22.9
70°-80°	8610.3	20.8
80°-90°	1255.1	3.0
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°	41462.3	100.0
0°-180°	41462.3	100.0

Coefficient of Utilization



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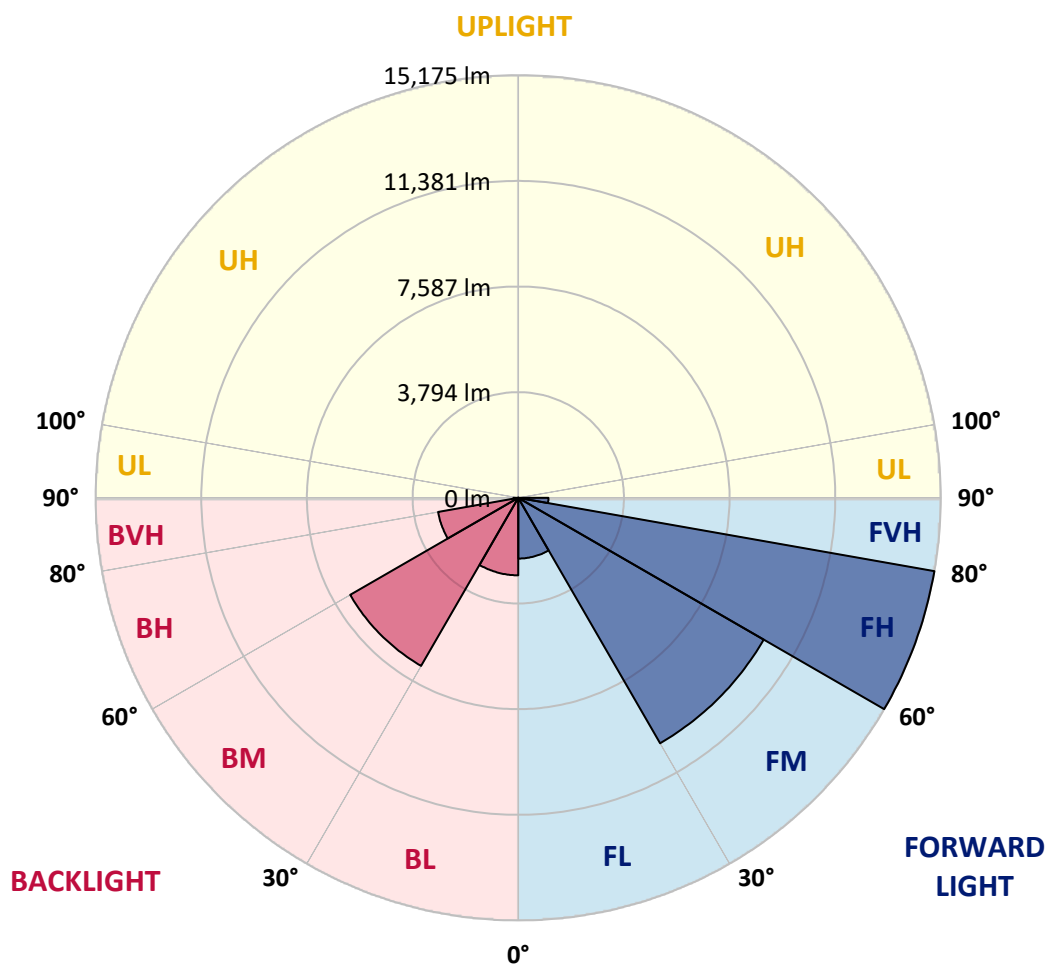
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2181.0	5.3			
FM	(30°-60°)	10178.1	24.5			
FH	(60°-80°)	15174.6	36.6			G5
FVH	(80°-90°)	1082.3	2.6			G5
BL	(0°-30°)	2782.6	6.7	B4/5000		
BM	(30°-60°)	6968.0	16.8	B4/8500		
BH	(60°-80°)	2922.9	7.0	B4/5000		G4/5000
BVH	(80°-90°)	172.8	0.4			G2/225
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4741.2	4741.2	4741.2	4741.2	4741.2	4741.2	4741.2	4741.2	4741.2	4741.2	4741.2
2.5°	4668.7	4695.1	4688.5	4679.7	4679.7	4681.9	4679.7	4695.1	4710.5	4725.9	4750.1
5°	4717.0	4743.5	4730.3	4719.3	4710.5	4708.2	4701.7	4699.5	4708.2	4728.1	4761.0
7.5°	4811.7	4838.0	4818.2	4798.4	4780.8	4772.1	4763.3	4750.1	4743.5	4754.5	4800.7
10°	4917.2	4943.6	4919.4	4884.2	4855.6	4844.7	4835.8	4822.6	4813.8	4820.5	4871.0
12.5°	5022.7	5049.2	5016.1	4967.8	4930.4	4923.8	4912.8	4908.4	4906.2	4904.0	4954.5
15°	5121.7	5143.7	5101.9	5044.7	5005.2	4994.2	4983.1	4989.8	5000.8	5014.0	5071.1
17.5°	5198.7	5220.6	5159.1	5084.3	5046.9	5042.6	5035.9	5058.0	5088.7	5121.7	5192.0
20°	5269.0	5291.0	5211.9	5110.8	5066.8	5066.8	5068.9	5115.2	5159.1	5207.5	5304.3
22.5°	5368.0	5385.6	5288.8	5150.3	5086.6	5091.0	5108.5	5154.7	5209.7	5275.7	5409.7
25°	5515.3	5528.5	5409.7	5225.0	5152.5	5165.7	5181.1	5203.1	5255.9	5332.9	5513.2
27.5°	5752.8	5763.9	5607.7	5357.1	5247.1	5269.0	5291.0	5275.7	5299.9	5365.8	5596.7
30°	6087.2	6093.7	5895.8	5563.7	5407.6	5418.6	5423.0	5359.2	5313.0	5365.8	5656.1
32.5°	6482.9	6480.8	6245.4	5814.4	5590.1	5579.1	5541.8	5416.4	5308.7	5354.8	5708.8
35°	7096.5	7072.3	6768.8	6166.3	5796.8	5728.6	5640.7	5480.2	5330.6	5343.8	5755.1
37.5°	8112.5	8037.7	7617.7	6742.4	6104.7	5931.0	5801.2	5583.5	5379.0	5339.4	5810.0
40°	9258.2	9163.7	8701.8	7531.9	6566.6	6287.2	6078.4	5730.9	5458.1	5359.2	5891.4
42.5°	10617.3	10483.1	9986.2	8462.2	7151.5	6746.9	6432.4	5917.8	5574.8	5423.0	6001.4
45°	12286.4	12108.2	11404.6	9511.1	7888.2	7349.4	6929.4	6201.5	5752.8	5546.2	6166.3
47.5°	13973.1	14017.1	13016.5	10711.9	8772.3	8092.7	7551.7	6628.1	6012.3	5744.1	6432.4
50°	15765.3	15796.2	14619.7	12042.3	9775.0	8932.8	8251.0	7105.3	6373.0	6025.6	6830.4
52.5°	17164.0	17168.4	16075.5	13434.4	10819.6	9856.4	9005.3	7650.7	6790.8	6399.4	7360.4
55°	18039.3	18028.2	17095.9	14751.6	12020.3	10826.2	9841.0	8270.8	7301.0	6839.2	8026.8
57.5°	18674.8	18641.8	17799.5	15884.1	13300.2	11971.9	10786.6	8974.5	7903.6	7362.6	8904.2
60°	18916.7	18896.9	18276.8	16862.7	14646.0	13238.6	11877.4	9761.8	8587.4	7980.5	10032.3
62.5°	19009.0	19046.4	18745.2	17810.5	16086.5	14641.6	13075.8	10703.0	9357.2	8679.9	11222.0
65°	19334.5	19402.7	19341.1	19050.9	17713.7	16284.4	14665.8	11822.3	10197.2	9429.8	12464.5
67.5°	19978.9	20047.1	20073.4	20535.3	19701.7	18331.7	16649.4	13216.7	11180.3	10208.3	13399.1
70°	19963.4	19943.6	20409.9	21716.2	22191.1	21166.4	19323.5	14931.9	12352.4	10854.7	13517.9
72.5°	18171.2	18012.8	19114.6	21702.9	24262.7	24126.3	22589.2	17144.3	13364.0	10934.0	11730.0
75°	13632.2	13210.0	15156.3	19558.8	24608.0	25806.4	24665.2	18516.4	13124.2	9660.6	8163.1
77.5°	5829.8	5405.4	7699.1	14478.9	22024.0	24124.2	22760.7	16154.6	10476.5	6388.4	4009.0
80°	1526.2	1524.0	2326.6	6564.3	14978.1	17814.9	15629.0	10432.6	5986.0	2282.7	1106.2
82.5°	631.1	615.7	855.5	2553.2	7318.6	9997.1	8158.7	4653.3	2161.7	618.0	367.3
85°	235.3	233.1	415.6	881.8	2581.8	4123.3	2984.2	1189.7	538.7	301.2	164.9
87.5°	66.0	63.8	90.2	305.7	628.9	954.4	510.1	195.7	151.7	118.8	48.4
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°	4741.2	4741.2	4741.2	4741.2	4741.2	4741.2	4741.2	4741.2	4741.2	4741.2	4741.2
2.5°	4756.6	4767.7	4787.5	4802.8	4822.6	4844.7	4875.4	4895.2	4915.0	4928.2	4919.4
5°	4776.5	4800.7	4851.2	4901.8	4961.2	5016.1	5079.9	5126.1	5163.5	5174.5	5178.9
7.5°	4820.5	4860.0	4945.8	5031.5	5126.1	5216.2	5308.7	5387.8	5451.6	5475.8	5478.0
10°	4897.4	4950.1	5071.1	5192.0	5317.4	5456.0	5574.8	5689.1	5779.3	5816.7	5818.8
12.5°	4994.2	5060.1	5218.5	5385.6	5559.3	5750.7	5904.6	6045.3	6157.5	6208.1	6208.1
15°	5119.5	5205.3	5407.6	5631.9	5887.0	6153.1	6348.8	6505.0	6630.3	6691.9	6687.5
17.5°	5255.9	5370.2	5625.3	5964.0	6329.1	6678.7	6907.4	7021.8	7151.5	7210.9	7208.6
20°	5387.8	5528.5	5893.6	6386.2	6872.2	7243.9	7428.6	7459.3	7468.2	7474.7	7492.3
22.5°	5524.1	5713.2	6230.1	6918.3	7439.6	7696.8	7723.3	7591.4	7406.5	7320.9	7345.0
25°	5673.7	5924.4	6669.9	7505.6	7927.8	7958.5	7756.3	7435.1	7085.5	6925.0	6949.2
27.5°	5818.8	6168.4	7197.7	8066.3	8279.6	8009.1	7573.7	7118.5	6696.2	6526.9	6546.8
30°	5964.0	6447.8	7780.5	8556.7	8440.2	7883.8	7285.6	6777.6	6353.3	6175.1	6194.9
32.5°	6111.4	6773.2	8451.1	8910.7	8411.6	7617.7	6927.2	6395.0	6021.2	5834.2	5858.4
35°	6278.4	7173.5	9086.7	9104.3	8220.3	7226.2	6454.3	5937.6	5612.1	5462.5	5495.5
37.5°	6496.1	7681.5	9647.5	9152.6	7885.9	6652.2	5867.2	5396.6	5128.3	5060.1	5108.5
40°	6766.6	8292.9	10076.3	9075.7	7391.2	5955.1	5225.0	4849.1	4697.3	4712.6	4765.4
42.5°	7118.5	8976.7	10377.6	8877.7	6702.9	5236.1	4662.1	4494.9	4567.5	4629.1	4686.3
45°	7575.9	9687.1	10564.5	8541.3	5924.4	4627.0	4330.0	4369.6	4424.6	4431.2	4475.2
47.5°	8160.8	10406.1	10687.7	8033.3	5130.5	4198.1	4119.0	4127.7	4116.7	4070.6	4105.7
50°	8891.0	11105.5	10797.6	7360.4	4455.4	3929.7	3824.3	3793.4	3641.7	3492.2	3512.0
52.5°	9722.2	11747.6	10843.8	6524.7	3929.7	3705.5	3534.0	3340.5	3056.8	3010.5	3026.0
55°	10645.9	12341.4	10725.0	5497.8	3487.8	3417.5	3157.9	2924.8	2894.0	2854.4	2861.1
57.5°	11749.8	12981.3	10483.1	4352.0	3034.7	3080.9	2828.1	2854.4	2799.5	2737.9	2726.9
60°	12957.1	13643.3	10058.7	3307.5	2566.4	2660.9	2742.3	2740.1	2724.7	2674.1	2656.5
62.5°	14043.4	14078.7	9223.1	2533.4	2155.2	2335.5	2557.6	2555.3	2542.2	2513.6	2502.5
65°	14690.0	14012.7	7828.8	1994.5	1816.5	2067.1	2306.9	2324.5	2326.6	2324.5	2324.5
67.5°	14575.7	13240.8	5915.6	1587.7	1537.2	1794.5	2058.4	2082.6	2100.1	2104.5	2108.9
70°	13282.6	11545.3	3857.2	1266.7	1288.6	1554.7	1823.1	1847.3	1862.6	1880.3	1889.1
72.5°	10353.4	8488.5	2207.8	1024.8	1070.9	1348.1	1590.0	1618.6	1627.3	1660.3	1673.5
75°	6309.2	4992.0	1191.9	807.1	879.7	1152.3	1359.0	1392.1	1407.4	1447.0	1451.4
77.5°	2999.6	2161.7	679.5	628.9	708.1	941.3	1147.9	1185.3	1143.5	1165.5	1147.9
80°	1013.8	802.7	428.9	479.4	541.0	734.5	919.2	956.6	868.7	864.3	855.5
82.5°	354.0	325.4	272.6	318.9	349.6	525.6	694.9	743.3	646.6	644.3	613.6
85°	138.6	131.9	151.7	173.7	208.9	323.3	457.5	481.6	398.0	321.0	316.6
87.5°	28.6	30.7	37.4	39.6	63.8	112.1	164.9	202.3	160.5	136.3	125.4
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)