

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: P971009

Luminaire Tested: **NAV-SB6C-827-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971009
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-827-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 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: 40124.6 lumens
Efficiency: N/A
Efficacy: 133.3 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



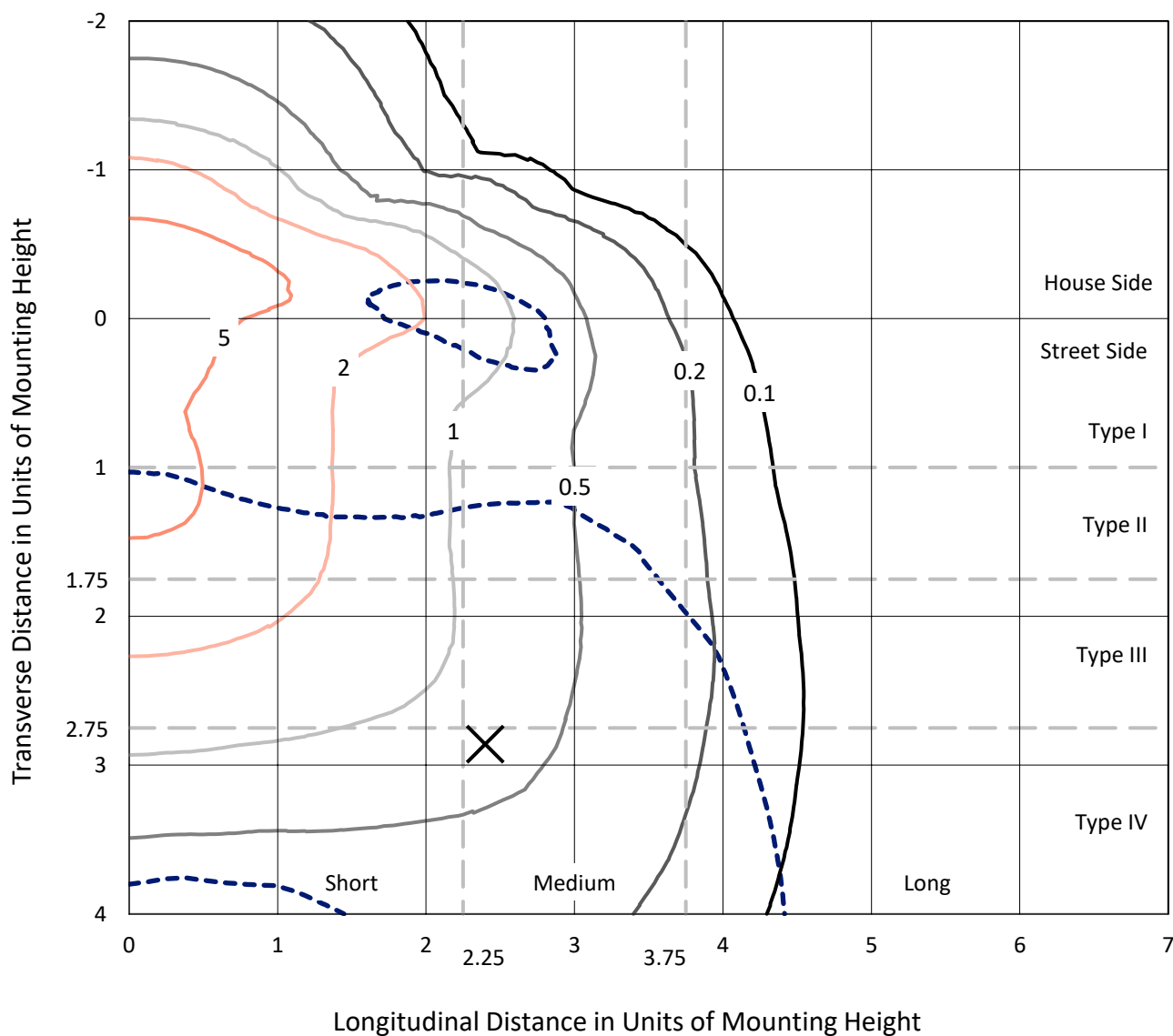
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

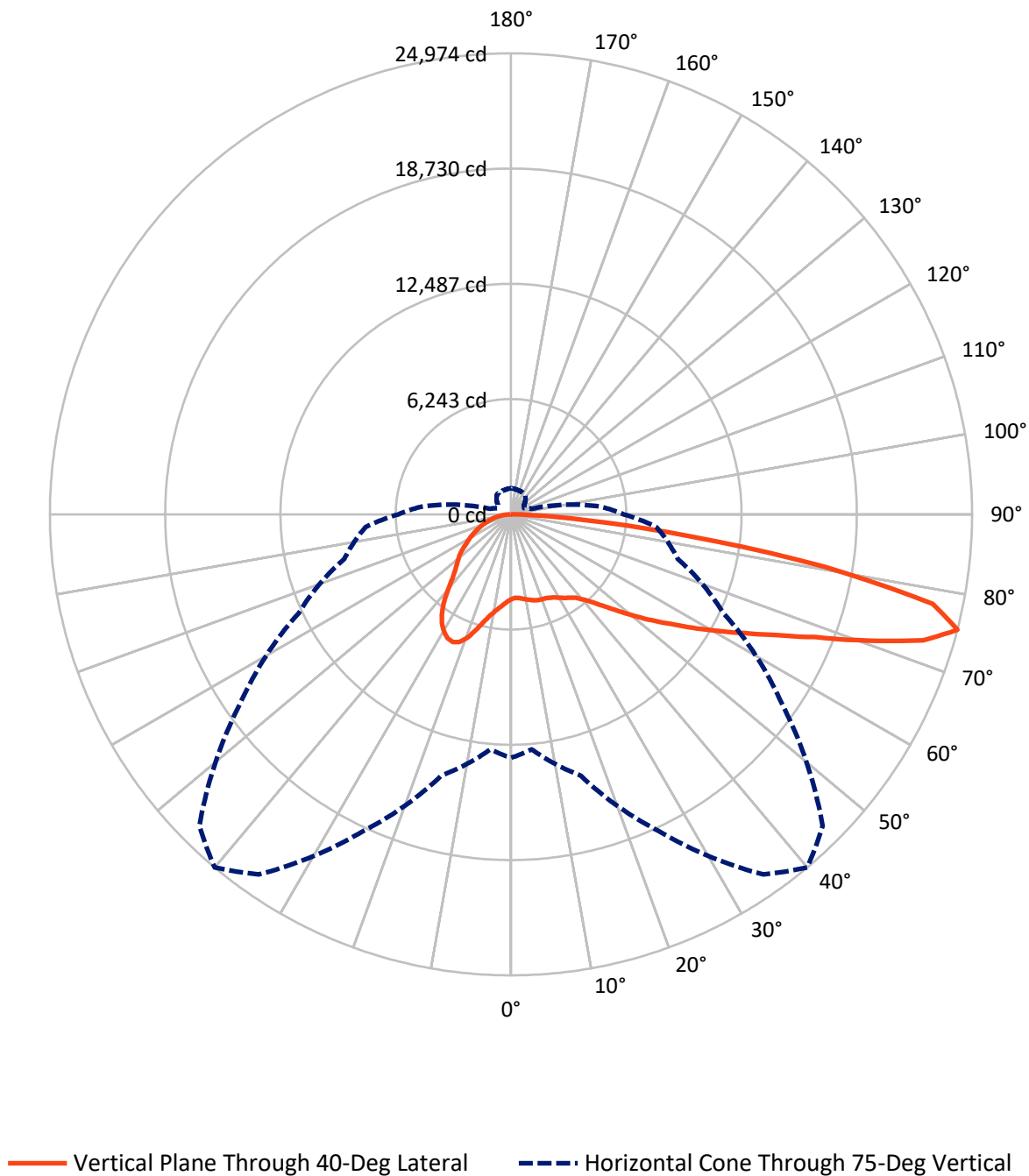
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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	12432.0	0.0	12432.0
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	27692.7	0.0	27692.7
	% Fixture	69.0	0.0	69.0
Total	Lumens	40124.6	0.0	40124.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	458.0	1.1
10°-20°	1537.7	3.8
20°-30°	2807.7	7.0
30°-40°	3982.2	9.9
40°-50°	5377.1	13.4
50°-60°	7233.7	18.0
60°-70°	9181.2	22.9
70°-80°	8332.5	20.8
80°-90°	1214.6	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°	40124.6	100.0
0°-180°	40124.6	100.0

Coefficient of Utilization



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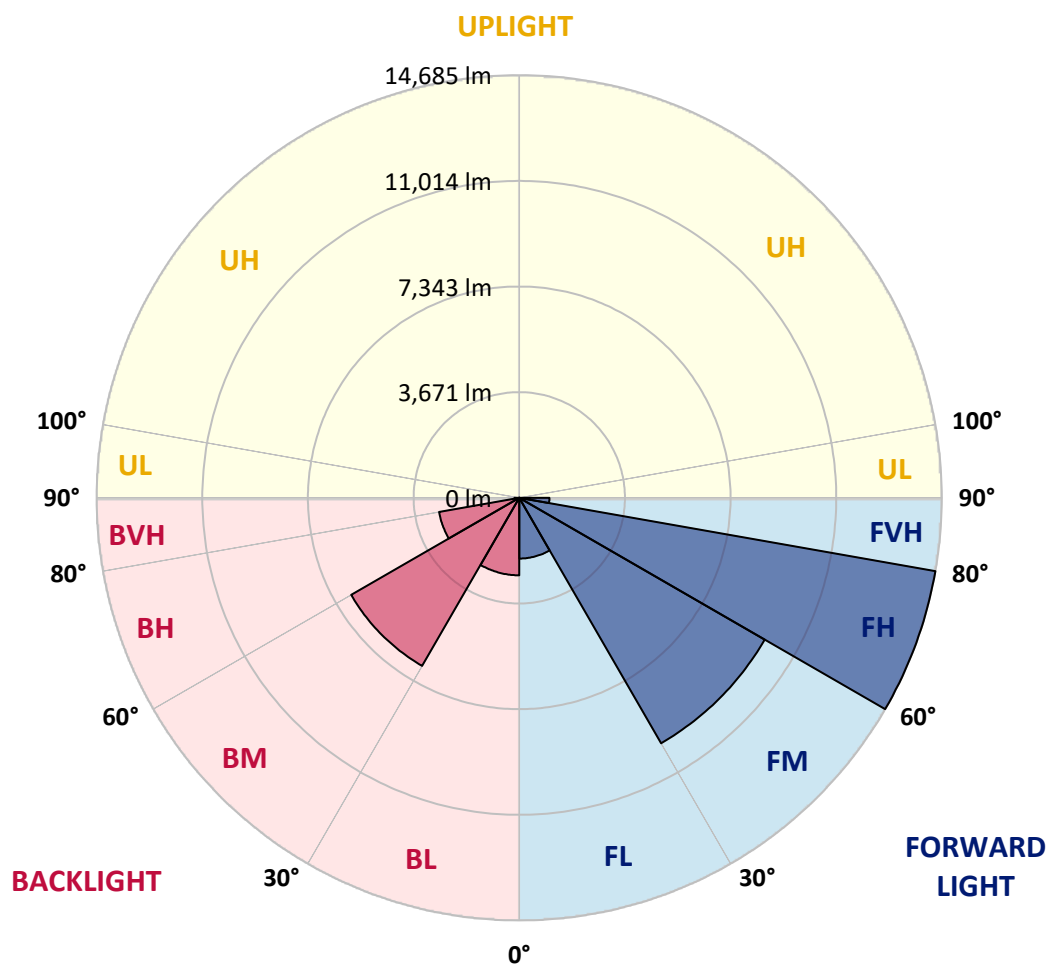
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2110.6	5.3			
FM	(30°-60°)	9849.7	24.5			
FH	(60°-80°)	14685.0	36.6			G5
FVH	(80°-90°)	1047.4	2.6			G5
BL	(0°-30°)	2692.9	6.7	B4/5000		
BM	(30°-60°)	6743.2	16.8	B4/8500		
BH	(60°-80°)	2828.6	7.0	B4/5000		G4/5000
BVH	(80°-90°)	167.2	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°	4588.3	4588.3	4588.3	4588.3	4588.3	4588.3	4588.3	4588.3	4588.3	4588.3	4588.3
2.5°	4518.1	4543.6	4537.3	4528.8	4528.8	4530.8	4528.8	4543.6	4558.5	4573.4	4596.8
5°	4564.9	4590.5	4577.6	4567.0	4558.5	4556.4	4550.0	4547.8	4556.4	4575.5	4607.5
7.5°	4656.4	4682.0	4662.8	4643.7	4626.6	4618.1	4609.6	4596.8	4590.5	4601.1	4645.8
10°	4758.6	4784.1	4760.7	4726.7	4699.0	4688.3	4679.8	4667.0	4658.5	4664.9	4713.9
12.5°	4860.8	4886.3	4854.3	4807.6	4771.4	4764.9	4754.3	4750.1	4747.9	4745.8	4794.7
15°	4956.5	4977.8	4937.3	4882.0	4843.6	4833.1	4822.4	4828.8	4839.4	4852.2	4907.5
17.5°	5031.0	5052.2	4992.7	4920.3	4884.1	4879.8	4873.5	4894.8	4924.5	4956.5	5024.5
20°	5099.1	5120.4	5043.7	4945.8	4903.3	4903.3	4905.4	4950.1	4992.7	5039.5	5133.1
22.5°	5194.8	5211.8	5118.2	4984.2	4922.5	4926.7	4943.7	4988.4	5041.6	5105.4	5235.3
25°	5337.4	5350.2	5235.3	5056.5	4986.3	4999.0	5013.9	5035.2	5086.3	5160.8	5335.3
27.5°	5567.3	5577.9	5426.8	5184.1	5077.7	5099.1	5120.4	5105.4	5128.9	5192.8	5416.2
30°	5890.8	5897.1	5705.6	5384.2	5233.1	5243.8	5248.0	5186.3	5141.6	5192.8	5473.6
32.5°	6273.8	6271.7	6044.0	5626.8	5409.7	5399.1	5363.0	5241.6	5137.4	5182.1	5524.6
35°	6867.6	6844.1	6550.5	5967.3	5609.8	5543.8	5458.7	5303.3	5158.6	5171.4	5569.3
37.5°	7850.8	7778.4	7371.9	6524.9	5907.8	5739.6	5614.1	5403.4	5205.5	5167.1	5622.6
40°	8959.5	8868.0	8421.1	7289.0	6354.7	6084.4	5882.3	5546.0	5282.1	5186.3	5701.4
42.5°	10274.7	10144.9	9664.0	8189.1	6920.8	6529.1	6224.8	5726.9	5394.9	5248.0	5807.8
45°	11890.0	11717.6	11036.6	9204.3	7633.7	7112.3	6705.9	6001.4	5567.3	5367.2	5967.3
47.5°	13522.3	13564.8	12596.5	10366.2	8489.3	7831.6	7308.0	6414.2	5818.4	5558.8	6224.8
50°	15256.7	15286.5	14148.0	11653.8	9459.6	8644.5	7984.9	6876.1	6167.4	5831.1	6610.0
52.5°	16610.2	16614.5	15556.8	13000.9	10470.6	9538.4	8714.8	7403.9	6571.8	6192.9	7122.9
55°	17457.3	17446.6	16544.3	14275.7	11632.5	10476.9	9523.5	8004.0	7065.5	6618.5	7767.8
57.5°	18072.3	18040.4	17225.3	15371.7	12871.1	11585.7	10438.6	8685.0	7648.6	7125.1	8616.9
60°	18306.4	18287.2	17687.1	16318.7	14173.5	12811.5	11494.1	9446.9	8310.5	7723.1	9708.7
62.5°	18395.8	18432.0	18140.4	17236.0	15567.5	14169.3	12654.0	10357.7	9055.3	8399.9	10860.0
65°	18710.8	18776.8	18717.1	18436.3	17142.3	15759.0	14192.7	11440.9	9868.3	9125.6	12062.4
67.5°	19334.3	19400.3	19425.8	19872.7	19066.1	17740.3	16112.3	12790.3	10819.6	9878.9	12966.9
70°	19319.4	19300.2	19751.4	21015.6	21475.2	20483.5	18700.1	14450.1	11953.9	10504.6	13081.8
72.5°	17585.0	17431.8	18498.0	21002.8	23480.0	23348.1	21860.5	16591.2	12932.8	10581.2	11351.6
75°	13192.5	12783.8	14667.2	18927.9	23814.0	24973.9	23869.4	17919.0	12700.9	9349.0	7899.7
77.5°	5641.7	5231.0	7450.7	14011.7	21313.5	23345.9	22026.4	15633.4	10138.6	6182.3	3879.6
80°	1476.9	1474.8	2251.6	6352.5	14494.8	17240.2	15124.8	10095.9	5792.9	2209.0	1070.5
82.5°	610.8	595.9	827.9	2470.8	7082.5	9674.6	7895.5	4503.1	2092.0	598.0	355.4
85°	227.8	225.6	402.2	853.4	2498.4	3990.3	2887.9	1151.4	521.4	291.5	159.6
87.5°	63.9	61.7	87.2	295.8	608.6	923.6	493.7	189.4	146.9	114.9	46.8
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°	4588.3	4588.3	4588.3	4588.3	4588.3	4588.3	4588.3	4588.3	4588.3	4588.3	4588.3
2.5°	4603.2	4613.8	4633.0	4647.9	4667.0	4688.3	4718.1	4737.2	4756.4	4769.2	4760.7
5°	4622.3	4645.8	4694.7	4743.7	4801.1	4854.3	4916.0	4960.7	4996.9	5007.5	5011.8
7.5°	4664.9	4703.2	4786.2	4869.3	4960.7	5048.0	5137.4	5214.0	5275.7	5299.1	5301.2
10°	4739.4	4790.4	4907.5	5024.5	5145.9	5280.0	5394.9	5505.6	5592.8	5629.0	5631.1
12.5°	4833.1	4896.9	5050.1	5211.8	5380.0	5565.1	5714.1	5850.3	5958.8	6007.8	6007.8
15°	4954.3	5037.4	5233.1	5450.2	5697.1	5954.6	6144.0	6295.1	6416.4	6476.0	6471.7
17.5°	5086.3	5197.0	5443.9	5771.6	6124.9	6463.2	6684.5	6795.2	6920.8	6978.2	6976.2
20°	5214.0	5350.2	5703.5	6180.1	6650.5	7010.2	7188.9	7218.7	7227.2	7233.6	7250.6
22.5°	5345.9	5529.0	6029.0	6695.2	7199.6	7448.6	7474.1	7346.4	7167.6	7084.6	7108.1
25°	5490.6	5733.2	6454.7	7263.4	7672.0	7701.8	7506.0	7195.3	6856.9	6701.6	6725.0
27.5°	5631.1	5969.5	6965.5	7806.1	8012.5	7750.7	7329.4	6888.8	6480.3	6316.4	6335.5
30°	5771.6	6239.8	7529.4	8280.7	8167.9	7629.5	7050.6	6559.0	6148.3	5975.9	5995.0
32.5°	5914.1	6554.8	8178.5	8623.3	8140.2	7371.9	6703.7	6188.6	5826.9	5646.0	5669.4
35°	6075.9	6942.0	8793.6	8810.6	7955.0	6993.2	6246.1	5746.0	5431.1	5286.3	5318.3
37.5°	6286.5	7433.6	9336.2	8857.4	7631.5	6437.7	5677.9	5222.5	4962.8	4896.9	4943.7
40°	6548.3	8025.2	9751.2	8782.9	7152.8	5763.1	5056.5	4692.6	4545.8	4560.6	4611.7
42.5°	6888.8	8687.2	10042.7	8591.3	6486.6	5067.2	4511.7	4350.0	4420.2	4479.8	4535.1
45°	7331.5	9374.5	10223.7	8265.8	5733.2	4477.6	4190.3	4228.6	4281.8	4288.2	4330.8
47.5°	7897.6	10070.4	10342.9	7774.1	4965.0	4062.7	3986.0	3994.5	3983.9	3939.2	3973.3
50°	8604.2	10747.2	10449.3	7122.9	4311.7	3803.1	3700.9	3671.0	3524.3	3379.5	3398.7
52.5°	9408.6	11368.6	10493.9	6314.2	3803.1	3586.0	3419.9	3232.6	2958.1	2913.5	2928.3
55°	10302.4	11943.2	10379.0	5320.4	3375.2	3307.2	3056.0	2830.4	2800.6	2762.4	2768.7
57.5°	11370.7	12562.5	10144.9	4211.6	2936.8	2981.5	2736.9	2762.4	2709.2	2649.5	2639.0
60°	12539.1	13203.1	9734.2	3200.8	2483.6	2575.1	2653.8	2651.7	2636.8	2587.8	2570.8
62.5°	13590.4	13624.5	8925.5	2451.6	2085.6	2260.1	2475.1	2472.9	2460.1	2432.5	2421.9
65°	14216.1	13560.6	7576.3	1930.3	1757.9	2000.5	2232.4	2249.5	2251.6	2249.5	2249.5
67.5°	14105.4	12813.6	5724.7	1536.6	1487.6	1736.6	1992.0	2015.4	2032.4	2036.7	2040.9
70°	12854.1	11172.8	3732.7	1225.8	1247.1	1504.6	1764.2	1787.7	1802.6	1819.6	1828.1
72.5°	10019.4	8214.7	2136.7	991.7	1036.4	1304.5	1538.6	1566.3	1574.8	1606.8	1619.5
75°	6105.7	4830.9	1153.4	781.0	851.3	1115.2	1315.2	1347.2	1362.0	1400.4	1404.6
77.5°	2902.8	2092.0	657.6	608.6	685.3	910.8	1110.9	1147.1	1106.7	1127.9	1110.9
80°	981.1	776.7	415.0	463.9	523.6	710.8	889.6	925.8	840.6	836.4	827.9
82.5°	342.7	315.0	263.9	308.6	338.4	508.6	672.5	719.3	625.7	623.5	593.8
85°	134.1	127.7	146.9	168.1	202.1	312.8	442.7	466.1	385.2	310.7	306.5
87.5°	27.7	29.8	36.2	38.3	61.7	108.5	159.6	195.8	155.4	131.9	121.3
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)