

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: P971054

Luminaire Tested: **NAV-SB6C-830-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971054
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-830-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42939.3 lumens
Efficiency: N/A
Efficacy: 142.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - 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

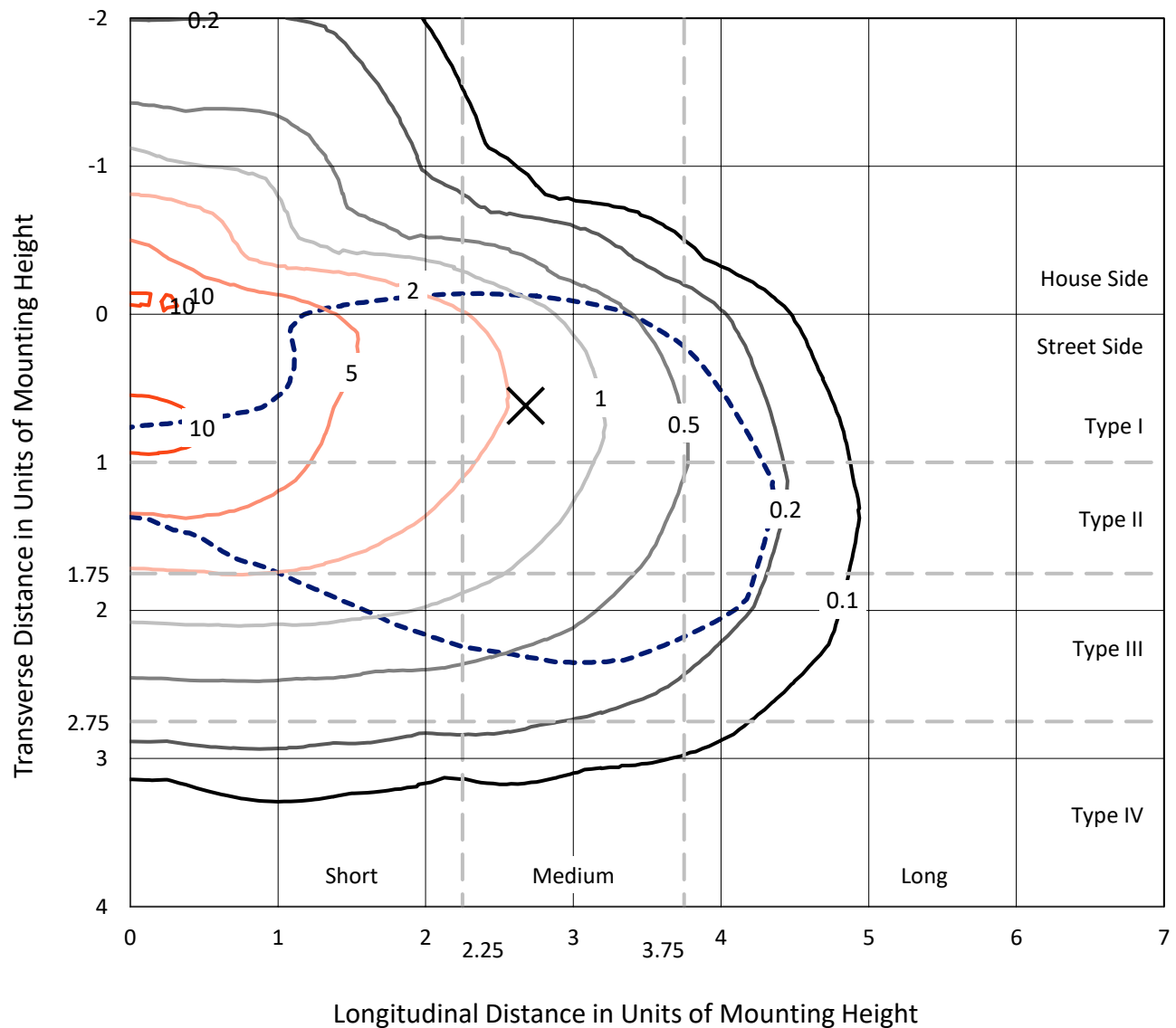


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Iso-Footcandle Lines of Horizontal Illumination

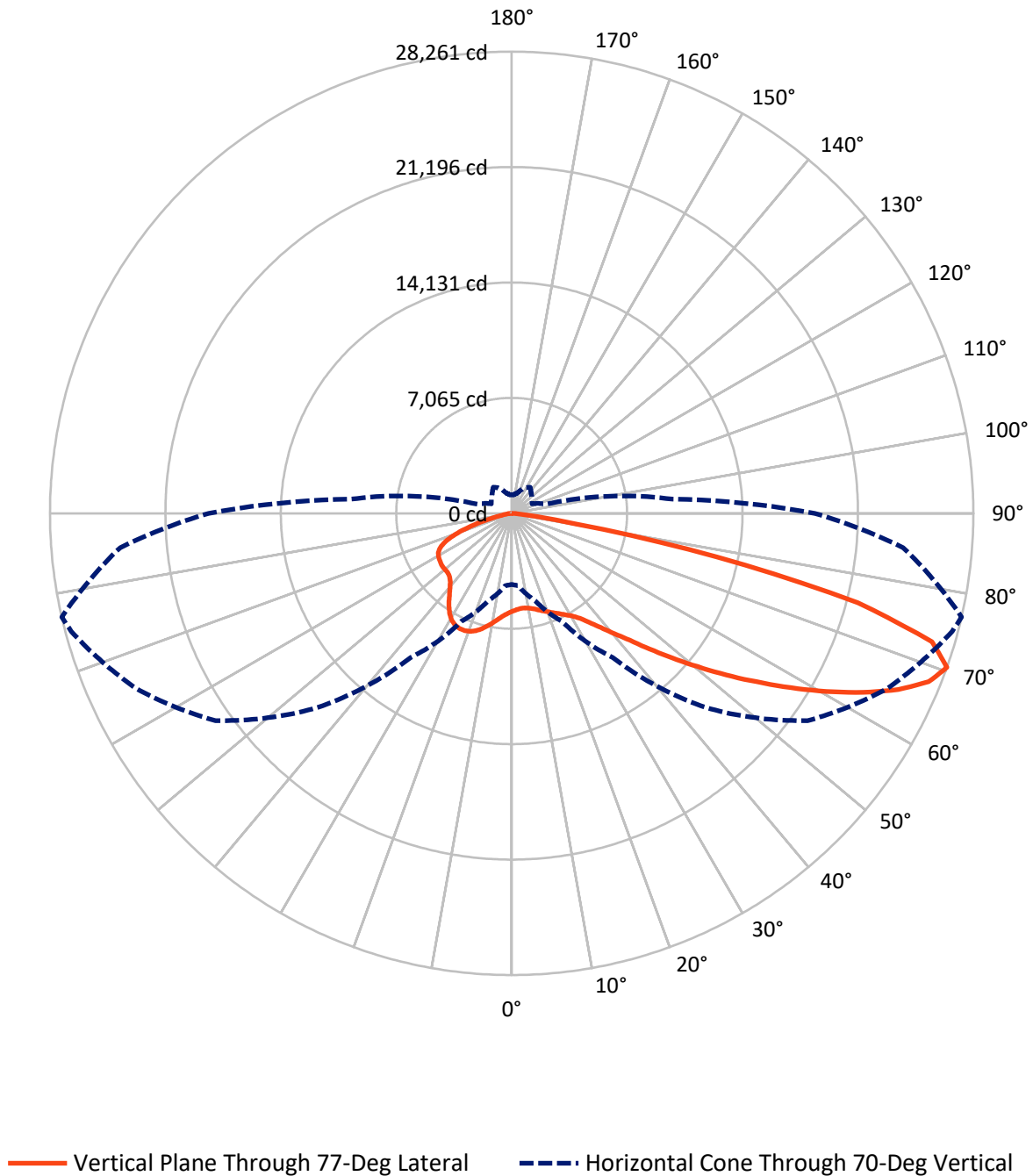
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9403.0	0.0	9403.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	33536.3	0.0	33536.3
	% Fixture	78.1	0.0	78.1
Total	Lumens	42939.3	0.0	42939.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	571.3	1.3
10°-20°	1648.9	3.8
20°-30°	2819.8	6.6
30°-40°	4534.6	10.6
40°-50°	7079.7	16.5
50°-60°	9456.8	22.0
60°-70°	10079.5	23.5
70°-80°	6204.9	14.5
80°-90°	543.7	1.3
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°	42939.3	100.0
0°-180°	42939.3	100.0

Coefficient of Utilization



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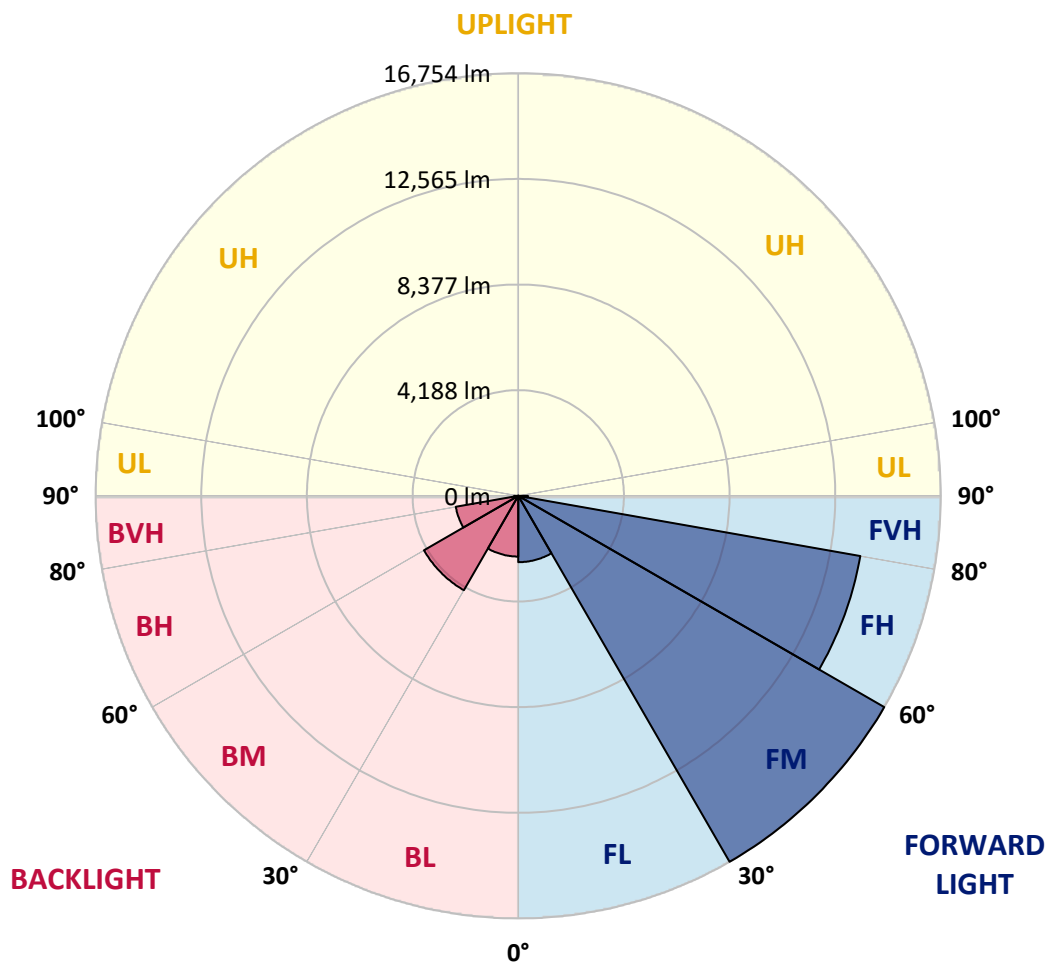
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2630.7	6.1			
FM	(30°-60°)	16754.0	39.0			
FH	(60°-80°)	13771.4	32.1			G5
FVH	(80°-90°)	380.2	0.9			G3/500
BL	(0°-30°)	2409.4	5.6	B3/2500		
BM	(30°-60°)	4317.1	10.1	B3/5000		
BH	(60°-80°)	2513.0	5.9	B4/5000		G4/5000
BVH	(80°-90°)	163.5	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	5990.4	5990.4	5990.4	5990.4	5990.4	5990.4	5990.4	5990.4	5990.4	5990.4	5990.4
2.5°	5522.0	5519.8	5548.4	5557.2	5609.9	5647.3	5717.8	5792.5	5889.2	5900.3	5959.7
5°	5203.1	5203.1	5236.1	5271.3	5339.5	5414.3	5522.0	5651.7	5818.9	5845.3	5992.7
7.5°	4932.6	4950.2	4978.8	5047.0	5126.1	5234.0	5398.9	5583.6	5803.4	5845.3	6082.8
10°	4714.9	4734.7	4769.9	4824.9	4943.7	5093.2	5308.7	5546.2	5840.9	5906.9	6214.8
12.5°	4646.7	4666.5	4686.3	4728.1	4838.1	5014.0	5271.3	5563.8	5931.1	5997.1	6395.1
15°	4805.1	4829.3	4813.9	4802.9	4860.0	5020.7	5288.9	5627.6	6043.2	6137.8	6617.2
17.5°	5170.1	5178.9	5143.8	5040.4	5031.6	5117.4	5372.4	5715.5	6183.9	6287.3	6841.5
20°	5759.5	5744.1	5671.5	5467.0	5350.5	5332.9	5515.4	5847.5	6329.1	6439.0	7083.4
22.5°	6560.0	6542.4	6397.2	6073.9	5814.5	5642.9	5722.2	6019.0	6491.8	6614.9	7318.7
25°	7558.5	7534.3	7320.9	6881.0	6478.6	6054.2	6003.6	6245.5	6691.9	6806.3	7565.0
27.5°	8724.0	8704.2	8473.3	7892.7	7312.1	6617.2	6353.3	6511.6	6900.8	7030.6	7842.1
30°	9977.5	10034.6	9625.6	9001.0	8266.5	7351.7	6823.9	6839.3	7171.3	7288.0	8178.6
32.5°	11450.9	11549.8	11057.2	10265.5	9262.7	8150.0	7417.6	7296.7	7565.0	7661.8	8603.0
35°	12911.1	13023.2	12614.2	11738.9	10584.4	9091.2	8037.8	7822.3	8088.4	8194.0	9166.0
37.5°	14173.4	14322.9	14111.8	13350.9	11998.4	10225.9	8847.1	8440.3	8732.7	8864.7	9922.5
40°	15169.6	15398.3	15382.9	14907.9	13665.4	11602.6	9874.1	9203.4	9533.2	9676.2	10839.5
42.5°	15978.8	16176.8	16348.3	16324.1	15404.9	13166.2	11081.4	10195.2	10445.9	10610.8	11870.9
45°	16537.5	16748.6	17118.0	17516.0	17078.4	14839.7	12464.6	11371.7	11600.4	11848.9	13100.2
47.5°	17036.6	17276.4	17755.8	18386.9	18499.1	16519.8	13979.9	12741.8	12950.7	13207.9	14333.9
50°	17080.6	17287.3	18030.7	18925.7	19508.4	18134.0	15607.2	14279.0	14474.6	14749.5	15655.5
52.5°	16018.5	16343.9	17641.4	18910.3	19972.4	19484.2	17223.6	15877.7	16097.6	16427.5	17023.4
55°	12433.9	12911.1	16500.0	18321.0	19807.5	20357.3	18760.8	17577.6	17859.1	18204.4	18400.1
57.5°	10709.7	10918.7	13098.0	17247.8	19055.5	20583.8	20058.2	19295.1	19748.2	20126.4	19855.9
60°	9625.6	9799.3	11088.0	15578.7	18065.8	20225.4	21061.1	20896.2	21679.0	22129.9	21344.7
62.5°	8464.4	8629.4	9801.6	13007.9	16799.1	19629.4	21694.4	22373.9	23658.2	24150.8	22747.8
65°	7312.1	7452.9	8576.6	10929.7	15189.4	19033.4	22022.0	23651.7	25490.1	26000.3	23913.4
67.5°	6027.8	6144.4	7206.6	9220.9	13232.1	18217.5	22184.8	24656.6	27084.5	27522.1	24489.5
70°	4349.9	4440.0	5537.4	7292.3	10775.7	16814.5	22118.8	25369.2	27911.4	28261.0	24054.1
72.5°	2056.1	2137.5	3426.3	4734.7	7611.1	14083.2	20783.9	24804.0	27071.3	26897.5	21388.7
75°	1097.4	1167.8	1968.2	2597.1	4020.0	9654.2	17008.0	21366.7	22732.3	21888.0	15807.3
77.5°	743.3	798.3	1218.3	1559.2	1836.3	4583.0	10931.8	14793.5	14232.7	12838.5	7916.9
80°	589.4	646.6	998.5	1055.5	888.5	1656.0	4517.0	6848.1	4919.5	3934.3	2251.9
82.5°	453.0	516.8	840.1	765.3	483.8	679.6	1315.1	2166.1	1260.1	958.8	545.4
85°	277.1	345.2	659.7	488.2	272.6	310.1	446.4	602.6	384.9	321.0	195.7
87.5°	140.7	197.9	334.3	178.1	123.1	72.6	118.8	118.8	101.2	87.9	50.5
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°	5990.4	5990.4	5990.4	5990.4	5990.4	5990.4	5990.4	5990.4	5990.4	5990.4	5990.4
2.5°	6012.4	6056.4	6131.1	6201.6	6256.5	6309.3	6362.1	6390.7	6399.5	6434.6	6454.4
5°	6082.8	6164.1	6309.3	6445.6	6531.4	6584.2	6621.6	6643.5	6647.9	6658.9	6676.5
7.5°	6212.5	6342.3	6544.6	6681.0	6744.7	6740.3	6724.9	6670.0	6647.9	6628.2	6632.6
10°	6395.1	6566.6	6815.1	6909.6	6870.1	6764.5	6628.2	6467.6	6392.8	6320.3	6298.3
12.5°	6621.6	6839.3	7083.4	7079.0	6883.3	6612.8	6296.1	6049.8	5893.6	5781.5	5755.1
15°	6896.5	7147.1	7334.1	7184.5	6755.7	6269.7	5805.7	5484.7	5343.8	5220.7	5207.5
17.5°	7180.1	7448.5	7534.3	7151.5	6434.6	5761.7	5236.1	4983.2	4844.7	4778.8	4798.5
20°	7457.3	7723.4	7653.0	6962.4	5946.4	5185.6	4717.2	4578.6	4550.0	4565.3	4558.8
22.5°	7749.7	7987.2	7677.1	6597.4	5324.1	4596.2	4338.9	4343.2	4407.1	4453.2	4464.2
25°	8048.8	8209.3	7613.4	6069.6	4655.5	4162.9	4099.2	4169.6	4294.9	4385.1	4409.2
27.5°	8336.9	8407.3	7474.8	5416.4	4081.6	3852.9	3863.8	4009.0	4198.1	4323.4	4354.3
30°	8662.4	8583.1	7208.7	4681.9	3683.5	3586.8	3679.1	3848.5	4037.6	4149.7	4176.2
32.5°	9029.6	8734.9	6786.5	4002.4	3402.1	3373.5	3525.2	3635.2	3718.7	3751.7	3769.3
35°	9487.0	8948.2	6245.5	3525.2	3149.1	3217.4	3362.5	3307.5	3274.5	3256.9	3274.5
37.5°	10080.8	9236.4	5612.2	3215.1	2944.6	3105.1	3164.6	2993.0	2863.2	2799.5	2814.9
40°	10795.5	9658.6	5003.0	2975.4	2814.9	3008.4	2905.1	2698.3	2533.4	2443.2	2449.9
42.5°	11589.4	10100.6	4490.6	2795.1	2742.3	2929.2	2713.7	2467.4	2201.3	2172.7	2201.3
45°	12422.9	10555.9	4141.0	2656.6	2707.1	2861.1	2603.8	2205.7	2016.6	2133.1	2194.7
47.5°	13256.3	10973.6	3929.8	2553.2	2689.5	2784.1	2507.0	2060.6	1926.4	2095.8	2174.9
50°	14184.4	11347.5	3835.2	2478.4	2669.7	2753.4	2361.9	2023.2	1831.9	1944.0	2027.6
52.5°	15105.8	11637.7	3764.9	2403.6	2641.1	2729.2	2291.5	1979.2	1717.5	1724.2	1770.3
55°	16025.1	11826.9	3688.0	2304.7	2577.4	2676.4	2284.9	1930.8	1631.8	1600.9	1623.0
57.5°	17005.9	11934.7	3593.3	2194.7	2467.4	2542.2	2278.3	1893.5	1605.4	1554.8	1561.4
60°	18004.2	12093.1	3470.2	2060.6	2320.1	2381.7	2262.9	1880.3	1590.0	1504.2	1510.8
62.5°	18899.3	12148.0	3322.8	1933.0	2131.0	2223.3	2229.9	1869.3	1548.2	1400.9	1400.9
65°	19486.5	11910.5	3065.6	1787.9	1926.4	2060.6	2166.1	1831.9	1473.4	1326.0	1326.0
67.5°	19462.3	11233.2	2663.2	1600.9	1728.6	1880.3	2073.8	1768.1	1383.2	1233.7	1240.4
70°	18556.2	9896.1	2152.9	1383.2	1510.8	1686.7	1955.0	1673.5	1275.5	1132.5	1145.7
72.5°	15915.1	7745.3	1563.5	1128.1	1257.9	1486.7	1801.1	1559.2	1165.5	1042.4	1035.8
75°	11369.5	4901.9	1060.0	866.4	978.6	1260.1	1609.8	1425.1	1064.4	1046.8	987.4
77.5°	5807.9	2342.0	701.5	633.3	681.7	994.0	1352.5	1273.3	1079.7	864.3	769.7
80°	1889.1	864.3	442.0	431.0	453.0	661.9	1046.8	1044.6	818.1	587.1	519.0
82.5°	602.6	371.7	288.1	277.1	266.1	415.6	730.1	826.9	552.0	371.7	369.4
85°	239.7	222.1	169.3	156.1	112.1	195.7	382.6	549.8	411.2	268.2	274.9
87.5°	87.9	87.9	46.2	33.0	24.2	66.0	103.3	164.9	235.3	138.6	136.3
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)