

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: P971038

Luminaire Tested: **NAV-SB6C-830-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971038
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-830-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40879 lumens
Efficiency: N/A
Efficacy: 135.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - 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



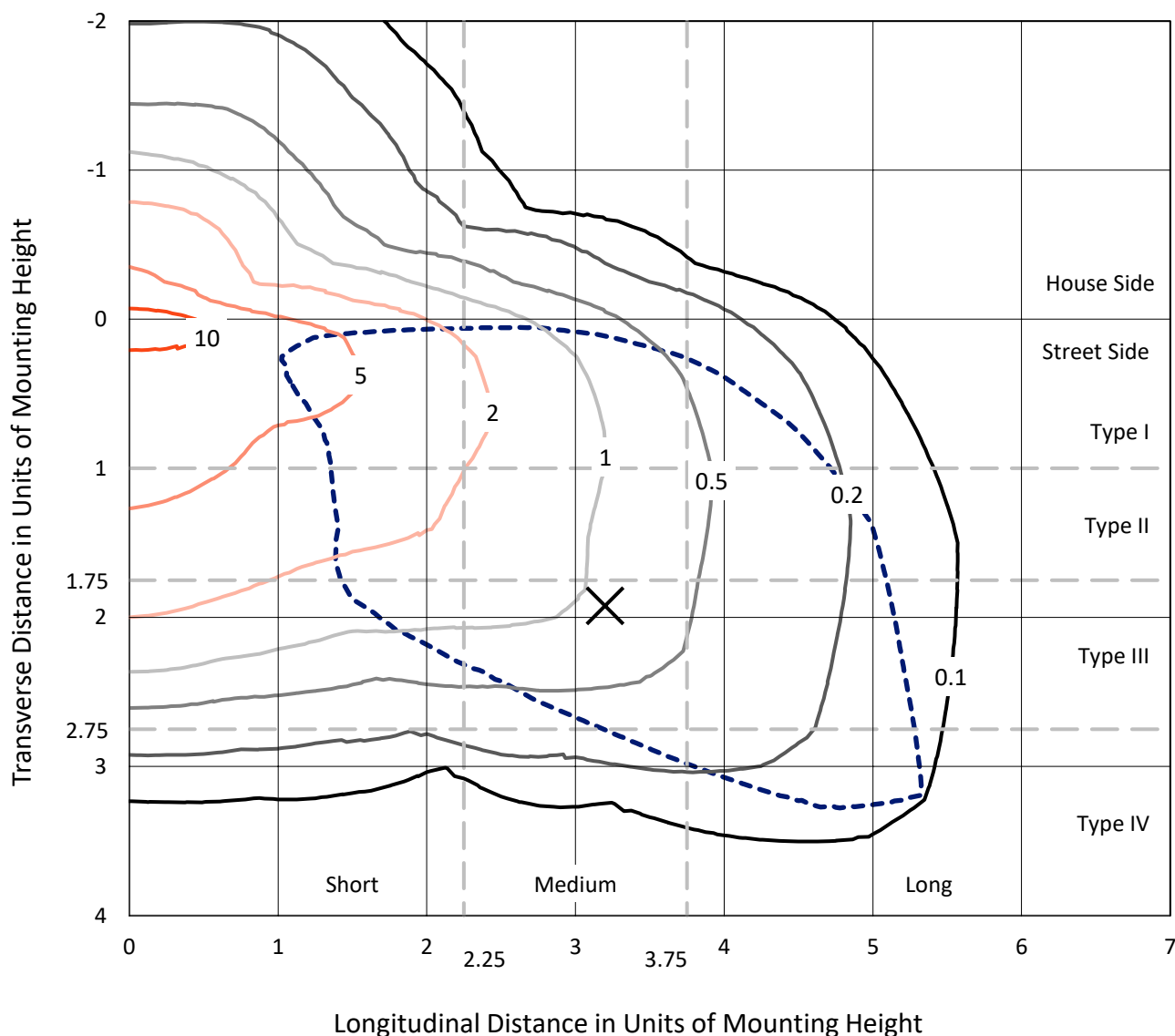
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

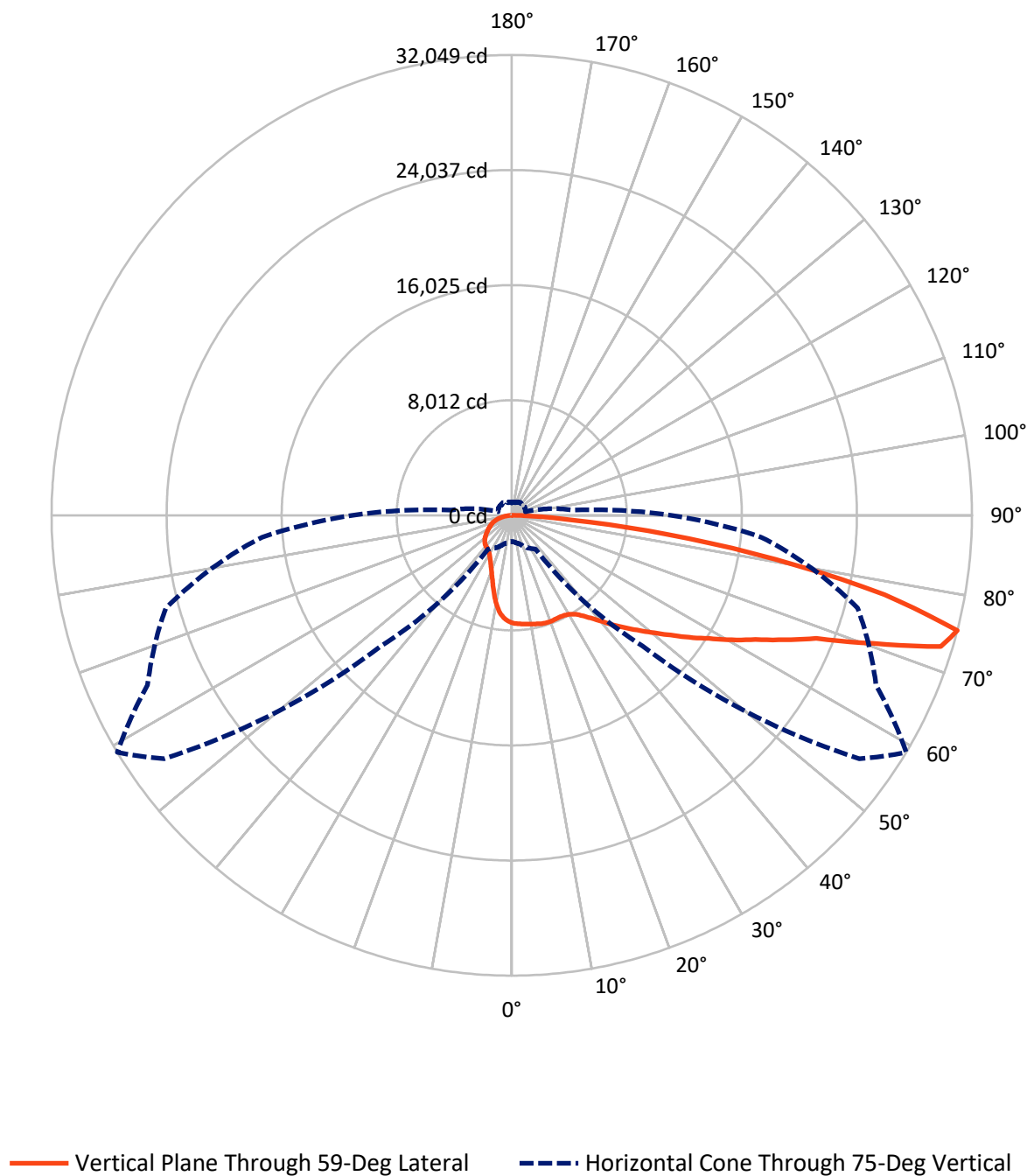
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 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	7667.1	0.0	7667.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	33211.9	0.0	33211.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	40879.0	0.0	40879.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	672.8	1.6
10°-20°	1719.7	4.2
20°-30°	2612.1	6.4
30°-40°	3882.8	9.5
40°-50°	5774.4	14.1
50°-60°	7838.0	19.2
60°-70°	9568.9	23.4
70°-80°	7509.6	18.4
80°-90°	1300.8	3.2
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°	40879.0	100.0
0°-180°	40879.0	100.0

Coefficient of Utilization



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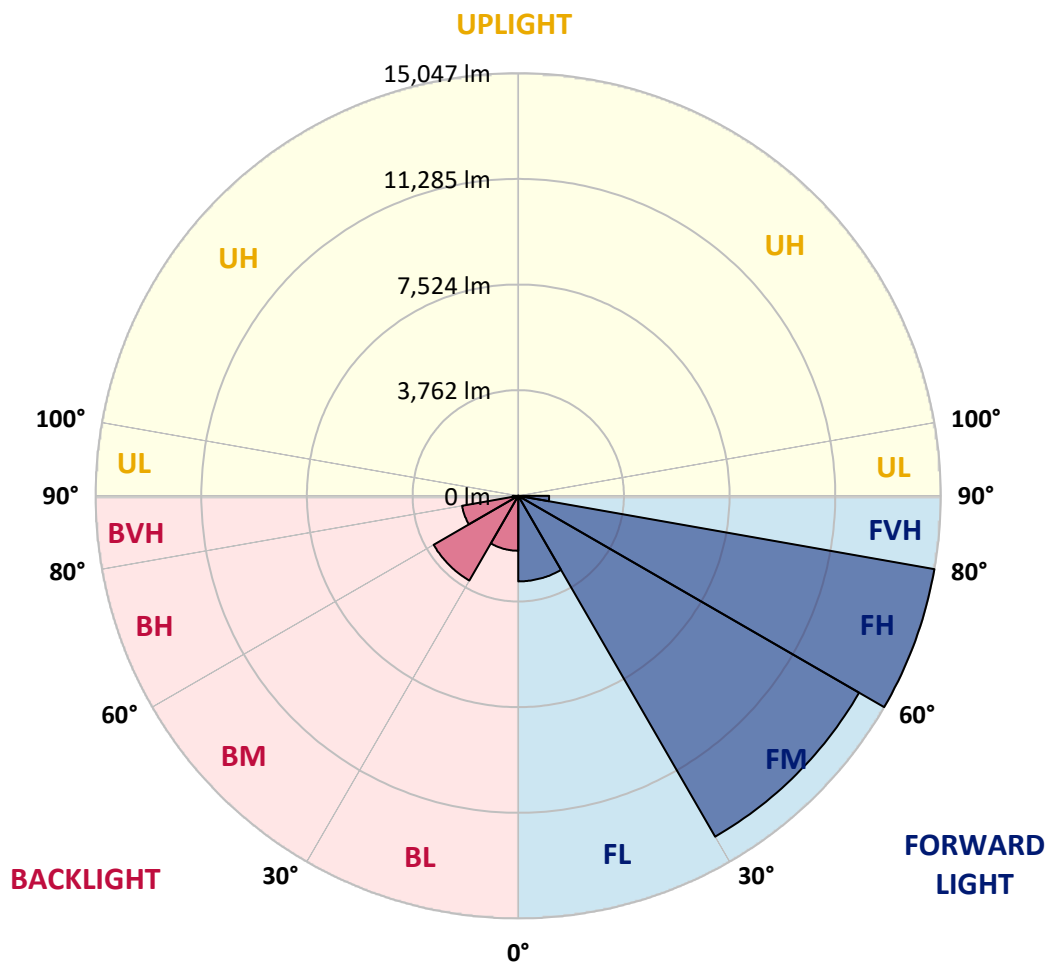
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3048.0	7.5			
FM	(30°-60°)	14015.0	34.3			
FH	(60°-80°)	15047.2	36.8			G5
FVH	(80°-90°)	1101.7	2.7			G5
BL	(0°-30°)	1956.6	4.8	B3/2500		
BM	(30°-60°)	3480.1	8.5	B3/5000		
BH	(60°-80°)	2031.3	5.0	B3/2500		G3/2500
BVH	(80°-90°)	199.1	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	7503.3	7503.3	7503.3	7503.3	7503.3	7503.3	7503.3	7503.3	7503.3	7503.3	7503.3
2.5°	7567.1	7540.6	7567.1	7556.0	7551.7	7542.9	7545.0	7560.4	7551.7	7562.7	7525.2
5°	7516.4	7501.1	7527.5	7520.8	7549.4	7553.8	7582.4	7600.1	7611.0	7613.2	7584.6
7.5°	7432.9	7417.5	7454.9	7485.7	7547.3	7564.8	7624.3	7652.8	7668.2	7694.6	7652.8
10°	7127.2	7120.6	7213.0	7329.6	7474.7	7564.8	7655.0	7703.4	7727.6	7797.9	7749.5
12.5°	6586.2	6595.1	6716.0	6940.3	7230.6	7520.8	7690.2	7760.6	7797.9	7885.9	7863.9
15°	6069.4	6067.3	6199.2	6438.9	6845.8	7327.3	7707.8	7828.7	7892.5	8022.3	8004.6
17.5°	5770.3	5761.6	5854.0	6036.4	6414.8	7030.5	7663.8	7866.2	8002.5	8165.2	8149.8
20°	5715.4	5697.8	5746.2	5836.3	6104.7	6705.0	7549.4	7866.2	8090.4	8301.5	8292.8
22.5°	5915.5	5887.0	5867.1	5856.1	5974.9	6436.7	7419.7	7839.7	8220.2	8497.2	8481.9
25°	6318.0	6273.9	6172.9	6073.8	6038.7	6315.7	7305.4	7833.2	8413.7	8761.1	8704.0
27.5°	6968.9	6913.9	6709.3	6471.8	6258.5	6377.3	7254.7	7872.7	8627.0	9040.4	8926.1
30°	7776.0	7716.6	7459.2	7094.2	6711.6	6606.0	7318.5	7989.3	8899.7	9412.1	9187.8
32.5°	8499.4	8433.5	8213.5	7842.0	7325.2	7001.9	7520.8	8211.4	9328.5	9928.9	9581.4
35°	9141.6	9064.6	8866.7	8523.6	8077.2	7558.2	7885.9	8605.0	9937.7	10768.9	10115.7
37.5°	9770.5	9680.3	9464.8	9102.0	8789.7	8299.3	8389.5	9110.8	10746.9	11789.2	10823.9
40°	10474.2	10344.5	10082.8	9724.3	9420.9	9168.0	9051.4	9730.9	11569.4	12928.4	11707.9
42.5°	11155.9	11032.8	10720.5	10414.8	10034.4	9961.9	9818.9	10456.6	12468.8	14179.6	12605.1
45°	11890.4	11743.1	11364.9	10977.9	10738.1	10489.6	10562.2	11182.3	13350.6	15455.2	13546.3
47.5°	12578.7	12413.8	11967.4	11536.4	11404.5	10933.8	11243.9	11980.6	14267.6	16748.2	14478.7
50°	12950.4	12787.7	12416.0	12026.7	11923.4	11481.4	11982.8	12858.0	15228.6	18036.8	15373.8
52.5°	13260.4	13084.5	12598.5	12383.0	12352.3	12077.4	12893.2	13860.8	16189.7	19176.0	16238.0
55°	13590.3	13394.6	12774.5	12581.0	12721.7	12745.9	13972.9	14997.7	17205.5	20286.5	17053.8
57.5°	13970.7	13722.3	12943.8	12748.0	13082.3	13528.8	15213.3	16176.4	18204.0	21315.7	17779.5
60°	14329.2	14078.5	13269.2	13014.1	13471.6	14436.9	16636.1	17603.7	19334.3	22232.7	18465.7
62.5°	14399.6	14192.9	13528.8	13526.5	13999.3	15496.9	18320.5	19044.0	20321.6	23138.8	19081.4
65°	13181.3	13051.5	12657.9	13506.7	14755.8	17023.1	20196.4	20886.8	21577.4	23930.4	19622.4
67.5°	10032.2	10049.8	10021.2	11659.5	14144.5	19215.6	22912.2	22859.4	23127.7	24818.8	20244.8
70°	4587.3	4690.6	5363.5	8048.6	11331.9	19468.4	27402.8	26718.8	25073.9	25968.9	20783.5
72.5°	2478.3	2557.6	2832.4	3899.0	6812.8	17309.0	30758.5	31244.6	27662.2	26743.0	20192.0
75°	1818.7	1862.6	2053.9	2478.3	2861.0	12864.6	29555.7	32049.4	27985.5	24937.5	17436.5
77.5°	1361.2	1381.0	1537.2	1963.8	1464.6	6781.9	23615.9	26542.9	23956.8	20488.8	12880.0
80°	987.4	1009.4	1126.0	1473.3	1026.9	2480.6	16216.0	18630.6	16407.4	13060.3	6419.1
82.5°	681.7	690.5	741.1	1002.8	716.9	963.2	9200.9	10925.1	9159.2	4582.9	1732.9
85°	411.2	422.2	444.2	585.0	406.8	457.5	3971.6	4107.9	2737.9	1095.1	538.7
87.5°	169.3	180.3	197.9	246.3	160.5	127.5	655.3	822.5	512.4	321.0	167.2
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°	7503.3	7503.3	7503.3	7503.3	7503.3	7503.3	7503.3	7503.3	7503.3	7503.3	7503.3
2.5°	7514.3	7498.9	7457.1	7399.9	7347.1	7281.2	7252.6	7228.4	7206.4	7164.6	7144.8
5°	7560.4	7518.7	7406.5	7261.4	7096.4	6916.1	6740.2	6619.2	6515.8	6438.9	6375.1
7.5°	7630.8	7551.7	7347.1	7050.3	6672.0	6285.0	5935.4	5686.8	5499.9	5431.7	5313.0
10°	7703.4	7608.8	7252.6	6729.2	6076.1	5480.1	5016.1	4761.0	4611.5	4563.1	4488.3
12.5°	7789.2	7650.6	7105.2	6282.7	5409.7	4756.6	4351.9	4202.4	4125.5	4099.1	4105.6
15°	7914.5	7685.8	6883.1	5724.2	4774.2	4228.8	3967.2	3863.7	3824.2	3822.0	3830.8
17.5°	8009.0	7692.4	6537.9	5126.0	4286.0	3910.0	3694.4	3654.8	3681.3	3720.9	3736.2
20°	8114.6	7633.0	6084.8	4580.7	3943.0	3630.7	3540.6	3566.9	3630.7	3687.8	3707.6
22.5°	8189.3	7525.2	5537.3	4156.3	3646.0	3470.1	3465.7	3520.8	3555.9	3584.5	3599.9
25°	8255.3	7342.7	4956.7	3800.0	3402.0	3373.4	3421.8	3404.1	3379.9	3404.1	3419.6
27.5°	8303.7	7054.7	4437.7	3487.8	3230.5	3307.4	3278.9	3239.2	3237.1	3250.3	3272.2
30°	8288.4	6669.8	4011.1	3190.8	3109.5	3184.3	3116.1	3109.5	3102.9	3109.5	3133.7
32.5°	8288.4	6232.2	3683.4	2986.3	3032.6	3004.0	2997.3	2981.9	2955.6	2953.3	2981.9
35°	8334.5	5794.5	3402.0	2876.4	2968.7	2900.5	2905.0	2867.6	2812.6	2786.3	2812.6
37.5°	8429.1	5442.7	3122.7	2823.6	2856.6	2854.4	2836.8	2773.0	2676.3	2592.7	2621.3
40°	8657.8	5339.3	2931.4	2799.4	2803.8	2830.2	2784.0	2660.9	2440.9	2304.6	2322.2
42.5°	9016.2	5513.1	2889.6	2740.0	2768.6	2795.1	2704.9	2419.0	2262.9	2181.5	2181.5
45°	9471.4	5816.6	2979.8	2654.2	2685.1	2731.2	2463.0	2326.6	2256.2	2258.5	2269.5
47.5°	10047.6	6135.4	3146.9	2579.5	2564.1	2590.5	2302.5	2218.9	2122.2	2146.4	2207.8
50°	10713.9	6458.7	3305.2	2478.3	2430.0	2344.2	2199.0	2119.9	1996.8	1939.6	1955.0
52.5°	11435.2	6770.9	3369.0	2355.2	2284.8	2185.9	2128.7	2032.0	1882.4	1787.8	1785.7
55°	12119.1	7054.7	3298.7	2207.8	2139.7	2062.7	2053.9	1994.5	1834.0	1702.1	1702.1
57.5°	12765.7	7292.2	3122.7	2058.3	1992.4	1946.2	2005.5	1977.0	1774.7	1605.4	1596.5
60°	13313.2	7454.9	2867.6	1906.6	1860.4	1836.2	1926.4	1917.6	1691.0	1501.9	1495.4
62.5°	13748.6	7518.7	2586.1	1761.5	1750.5	1706.5	1816.4	1816.4	1585.6	1400.8	1394.2
65°	14089.5	7457.1	2300.2	1618.5	1640.5	1574.5	1682.3	1669.1	1473.3	1310.7	1301.9
67.5°	14390.8	7254.7	1983.6	1477.7	1528.4	1444.8	1541.6	1510.7	1350.2	1220.5	1211.7
70°	14525.0	6784.2	1622.9	1337.0	1398.6	1317.2	1400.8	1343.7	1211.7	1123.7	1106.2
72.5°	13447.4	5638.4	1277.7	1189.7	1242.5	1176.5	1249.1	1183.1	1062.1	1022.5	989.5
75°	11125.1	4231.0	983.0	1029.2	1068.8	1018.1	1066.5	1018.1	908.3	936.8	855.5
77.5°	8079.5	2856.6	752.0	859.9	877.4	851.1	892.8	837.8	738.9	732.3	699.4
80°	4017.7	1673.5	589.4	679.5	672.9	655.3	703.7	677.3	593.8	628.9	622.4
82.5°	1163.3	716.9	428.9	477.2	464.0	468.4	503.6	516.8	774.1	767.5	785.0
85°	365.0	281.5	257.3	266.1	252.9	259.5	296.8	589.4	545.4	318.9	345.2
87.5°	94.6	96.8	63.8	68.2	70.4	83.5	94.6	358.4	171.5	112.1	118.8
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)