

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: P968804

Luminaire Tested: **NAV-SB5C-740-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968804
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5C-740-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40775.5 lumens
Efficiency: N/A
Efficacy: 163.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

Input Watts (W): 249.5
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



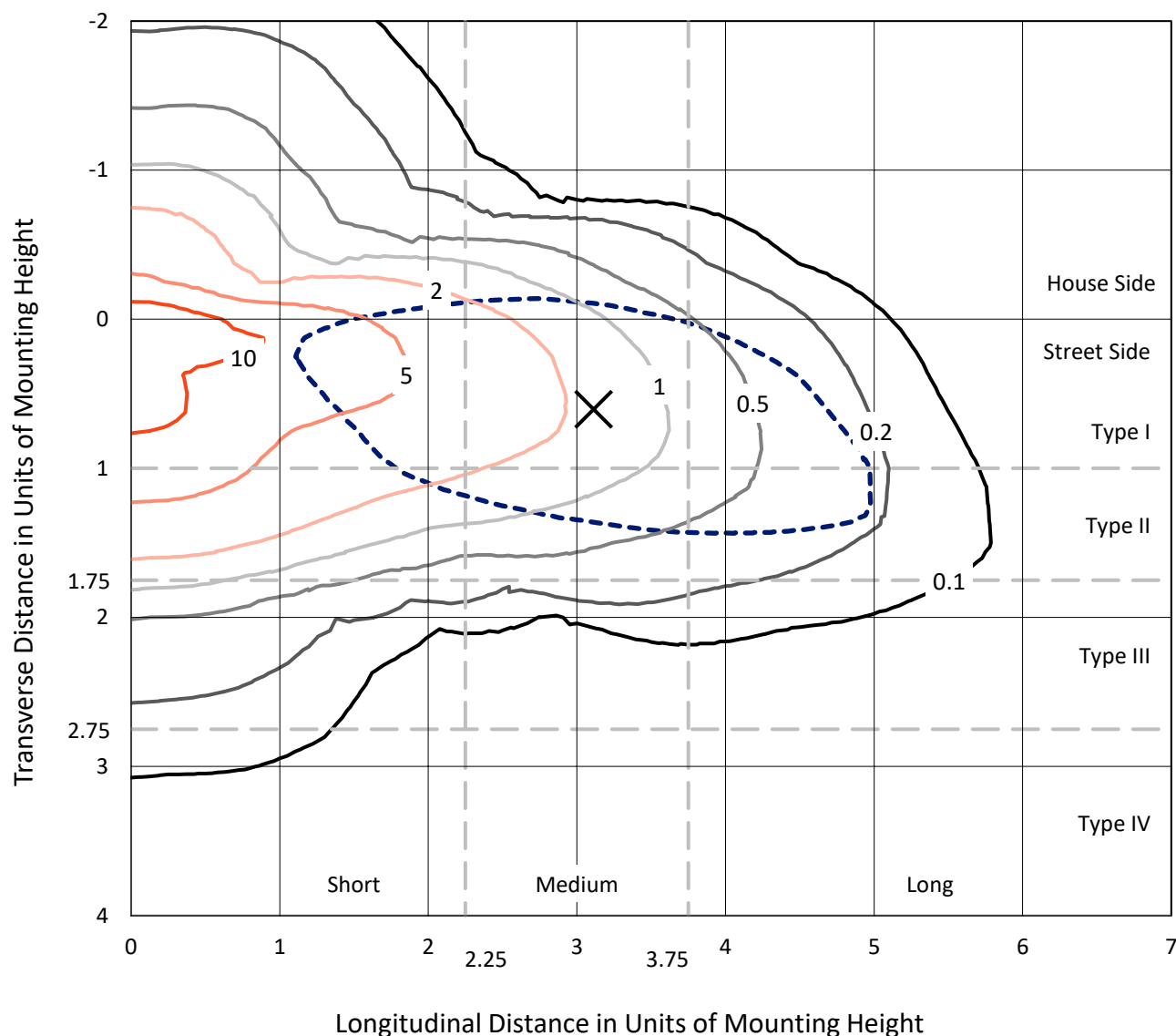
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

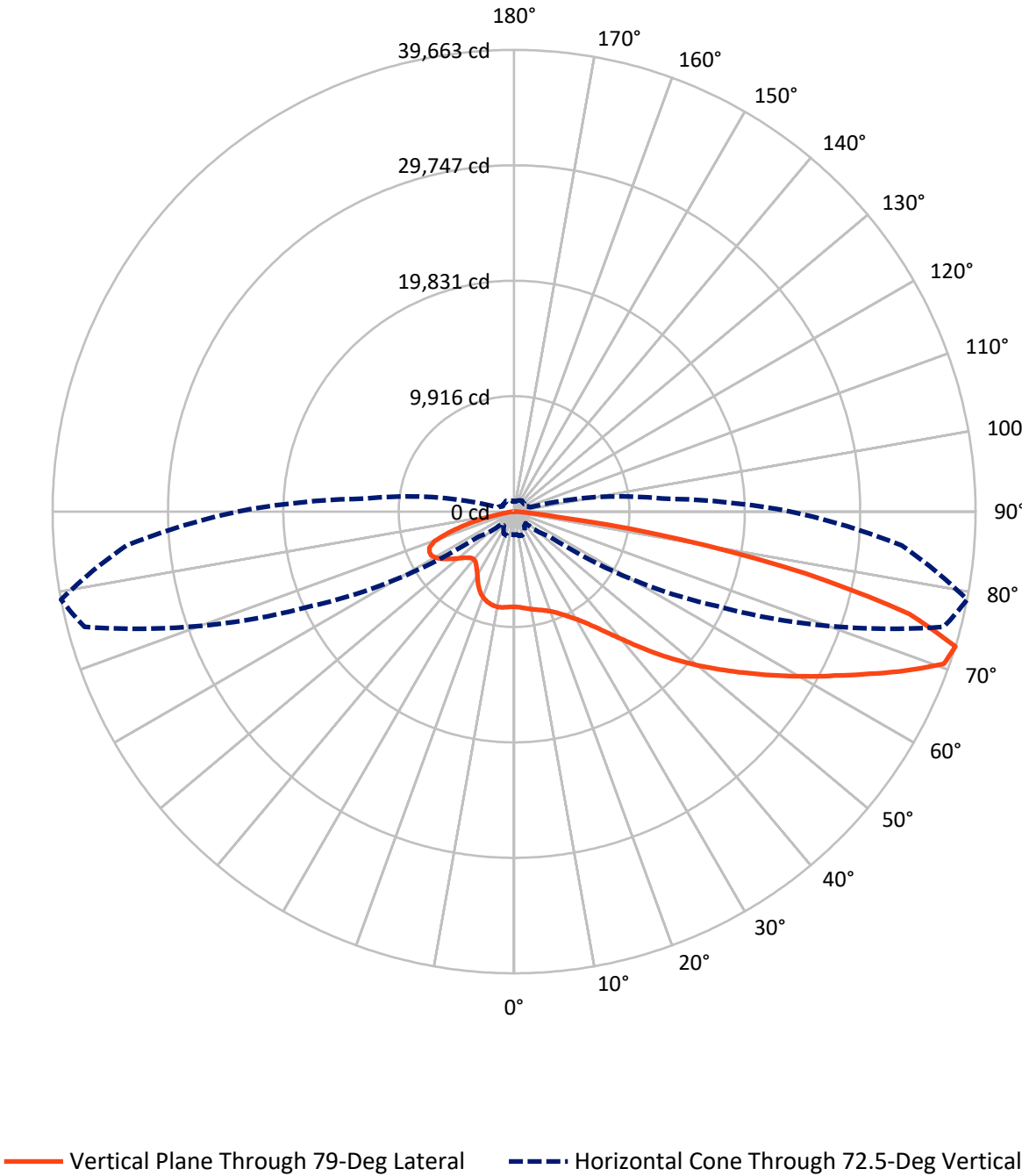
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8972.9	0.0	8972.9
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	31802.7	0.0	31802.7
	% Fixture	78.0	0.0	78.0
Total	Lumens	40775.5	0.0	40775.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	743.0	1.8
10°-20°	1942.5	4.8
20°-30°	3134.5	7.7
30°-40°	4704.4	11.5
40°-50°	6673.5	16.4
50°-60°	8427.7	20.7
60°-70°	8559.5	21.0
70°-80°	5833.7	14.3
80°-90°	756.9	1.9
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°	40775.5	100.0
0°-180°	40775.5	100.0

Coefficient of Utilization



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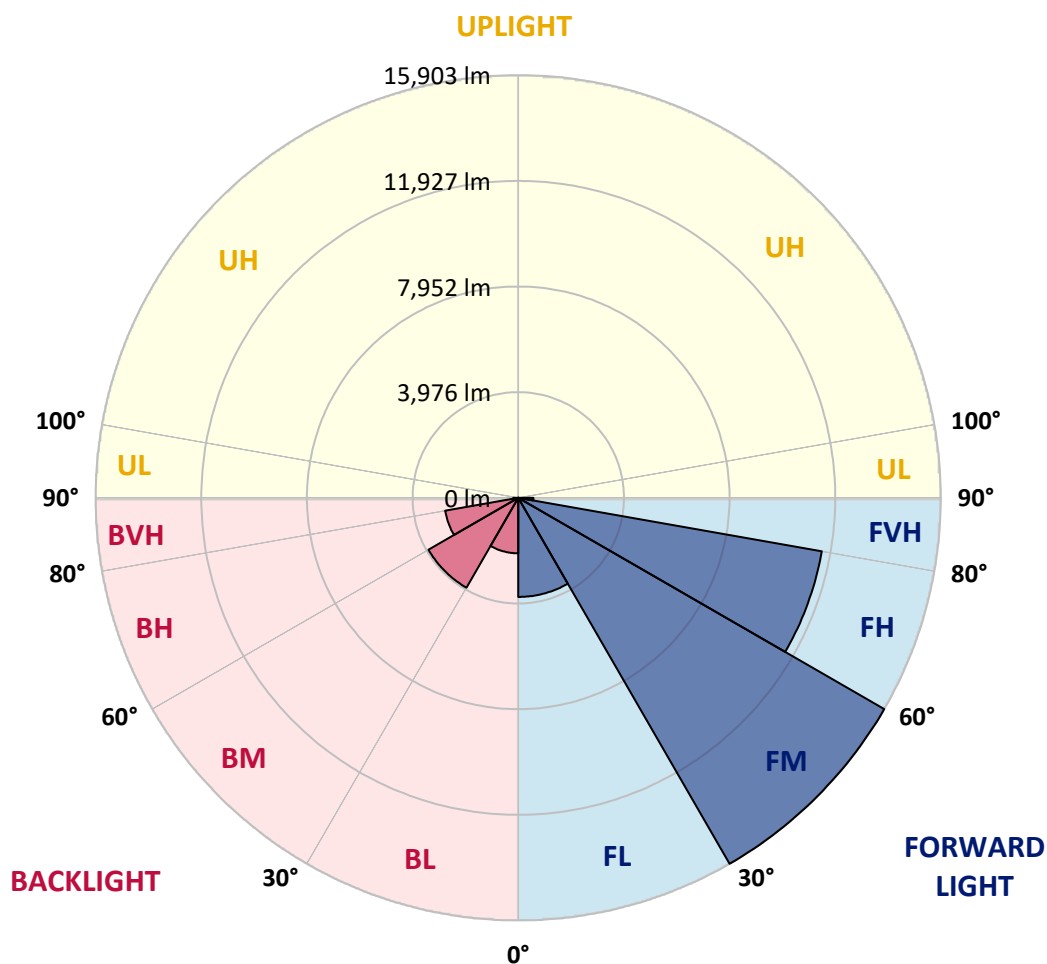
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3730.0	9.1			
FM	(30°-60°)	15903.3	39.0			
FH	(60°-80°)	11599.3	28.4			G4/12000
FVH	(80°-90°)	570.2	1.4			G4/750
BL	(0°-30°)	2090.0	5.1	B3/2500		
BM	(30°-60°)	3902.3	9.6	B3/5000		
BH	(60°-80°)	2793.9	6.9	B4/5000		G4/5000
BVH	(80°-90°)	186.7	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	8185.3	8185.3	8185.3	8185.3	8185.3	8185.3	8185.3	8185.3	8185.3	8185.3	8185.3
2.5°	8189.6	8150.8	8174.5	8165.9	8176.6	8189.6	8194.0	8200.4	8221.9	8219.8	8217.6
5°	8172.3	8133.6	8165.9	8155.1	8183.2	8213.3	8239.3	8262.9	8297.5	8312.5	8291.0
7.5°	8135.7	8109.8	8142.2	8174.5	8226.2	8271.5	8308.2	8362.2	8411.8	8420.4	8435.5
10°	7922.1	7902.7	7978.2	8062.3	8204.7	8327.6	8407.5	8470.0	8523.9	8532.5	8554.1
12.5°	7700.0	7676.3	7760.4	7874.7	8105.5	8327.6	8495.9	8577.8	8625.3	8653.4	8685.6
15°	7663.3	7643.9	7691.4	7790.6	7982.6	8269.4	8556.3	8707.3	8748.3	8780.6	8793.6
17.5°	7840.2	7803.5	7822.9	7857.4	7969.6	8215.5	8603.7	8853.9	8916.5	8951.0	8951.0
20°	8250.0	8198.3	8168.0	8099.0	8079.6	8224.1	8599.4	9030.8	9112.8	9155.9	9166.7
22.5°	8795.7	8761.2	8696.5	8521.7	8331.9	8329.8	8681.3	9257.3	9410.4	9451.4	9425.5
25°	9455.7	9404.0	9322.0	9084.7	8720.2	8539.1	8819.4	9546.2	9803.0	9813.8	9738.2
27.5°	10214.9	10137.2	10025.1	9712.4	9220.6	8866.9	9030.8	9878.4	10253.7	10249.4	10094.1
30°	11015.1	10937.5	10818.9	10439.2	9820.2	9309.0	9324.1	10236.5	10788.6	10764.9	10499.6
32.5°	11599.6	11541.4	11517.6	11224.4	10510.3	9831.0	9660.6	10633.3	11448.6	11427.1	11056.1
35°	12048.3	11972.7	12000.8	11852.0	11263.1	10415.5	10072.6	11105.7	12251.0	12248.9	11787.3
37.5°	12492.6	12425.7	12449.4	12350.2	11959.8	11157.4	10575.1	11683.8	13245.3	13292.7	12671.6
40°	12898.1	12826.8	12921.8	12829.0	12501.2	11946.9	11146.7	12337.3	14397.0	14487.7	13741.4
42.5°	13141.7	13085.7	13243.1	13245.3	12971.4	12613.3	11774.3	13057.7	15730.1	15932.8	15057.0
45°	13225.9	13206.5	13443.7	13493.3	13387.6	12999.5	12339.5	13842.7	17166.5	17528.8	16556.1
47.5°	13135.3	13098.7	13426.5	13609.8	13693.9	13180.6	12807.5	14692.6	18633.2	19163.7	18191.0
50°	12678.0	12606.9	13094.3	13480.4	13780.2	13299.3	13279.8	15673.9	20300.4	20880.6	19834.6
52.5°	11856.3	11802.4	12356.7	13027.4	13590.4	13357.5	13810.4	16745.9	21883.5	22634.2	21519.1
55°	10805.9	10734.7	11345.1	12220.8	13118.1	13338.0	14341.0	17945.1	23751.4	24512.8	23259.6
57.5°	9140.7	8998.5	9770.6	10805.9	12348.1	13314.3	14893.1	19137.9	25649.4	26561.7	25116.7
60°	6712.1	6500.8	7447.6	8674.9	10842.6	13083.5	15576.8	20475.1	27927.0	28748.8	27144.2
62.5°	3908.2	3785.3	4404.3	5549.7	8172.3	11724.7	15960.8	22030.2	30165.9	31028.6	29137.1
65°	3034.7	3000.2	3054.1	3142.5	4548.8	8778.4	14776.7	23546.5	33013.0	33616.9	31214.1
67.5°	2775.9	2750.0	2773.8	2607.6	2307.9	4889.7	11690.2	23930.4	36062.8	36429.4	33032.4
70°	2467.5	2437.2	2514.9	2372.6	1816.1	2223.7	7553.3	22537.1	38489.3	39177.2	34414.9
72.5°	2010.2	1975.7	2156.9	2092.1	1529.2	1427.8	3793.9	19226.3	38234.8	39662.6	33424.9
75°	1544.3	1524.9	1740.6	1794.5	1246.7	1123.7	1820.4	14291.4	33647.1	35085.8	28807.1
77.5°	1199.2	1184.1	1294.2	1490.4	1005.1	871.4	1119.4	9065.3	25356.1	25608.5	19851.8
80°	899.4	856.3	957.7	1153.9	782.9	636.3	759.2	5286.4	16027.6	14528.7	8640.4
82.5°	562.9	541.4	625.5	770.0	552.2	437.9	493.9	2920.4	6423.2	3783.2	1667.3
85°	321.3	312.7	340.8	440.0	299.8	252.4	282.6	1289.8	1173.3	806.7	502.6
87.5°	129.5	125.0	155.3	196.3	110.0	92.8	99.2	310.6	258.8	239.4	166.0
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°	8185.3	8185.3	8185.3	8185.3	8185.3	8185.3	8185.3	8185.3	8185.3	8185.3	8185.3
2.5°	8209.0	8209.0	8178.8	8131.4	8077.4	8043.0	7986.9	7971.7	7913.5	7896.3	7924.3
5°	8308.2	8291.0	8198.3	8064.5	7881.2	7712.9	7527.5	7411.0	7247.1	7188.8	7232.0
7.5°	8433.3	8385.9	8226.2	7933.0	7549.0	7171.6	6779.0	6481.4	6196.6	6095.3	6108.3
10°	8547.7	8480.7	8209.0	7695.7	7031.4	6377.9	5752.4	5314.5	4982.3	4846.5	4876.6
12.5°	8662.0	8539.1	8094.7	7301.0	6295.9	5409.4	4743.0	4402.2	4197.3	4033.4	4087.3
15°	8769.8	8597.3	7917.8	6772.6	5489.2	4589.8	4098.1	3826.3	3662.3	3554.5	3574.0
17.5°	8894.9	8646.9	7652.5	6101.7	4721.4	4022.5	3621.3	3457.4	3425.1	3412.1	3420.8
20°	9069.6	8692.2	7303.1	5351.2	4156.3	3569.6	3362.5	3347.4	3345.3	3338.8	3360.4
22.5°	9257.3	8746.1	6841.6	4669.6	3675.3	3287.1	3250.4	3220.2	3200.8	3198.6	3222.4
25°	9479.4	8763.3	6263.6	4111.0	3265.4	3153.3	3110.2	3065.0	3051.9	3051.9	3065.0
27.5°	9695.1	8705.1	5590.6	3625.7	3034.7	3030.4	2974.3	2959.2	2957.0	2963.5	2980.8
30°	9910.8	8595.1	4921.9	3177.1	2901.0	2901.0	2881.6	2892.3	2901.0	2922.6	2937.6
32.5°	10201.9	8478.6	4363.3	2844.9	2784.5	2763.0	2782.4	2803.9	2812.6	2840.6	2864.4
35°	10629.0	8396.7	3919.0	2663.8	2663.8	2635.7	2646.4	2642.1	2622.8	2609.9	2640.0
37.5°	11194.1	8392.4	3552.3	2579.6	2562.4	2558.0	2560.2	2532.2	2456.6	2366.1	2368.3
40°	11873.5	8508.8	3269.9	2521.4	2508.5	2534.3	2521.4	2445.9	2238.8	2081.4	2077.1
42.5°	12785.8	8841.0	3088.6	2450.2	2489.0	2521.4	2469.6	2208.7	2068.4	1962.8	1958.5
45°	13860.0	9380.2	2995.9	2374.7	2452.3	2491.2	2241.0	2126.7	2014.5	1887.2	1878.6
47.5°	15076.5	10059.7	2974.3	2303.5	2370.4	2394.1	2143.9	2092.1	1964.9	1826.9	1816.1
50°	16400.8	10864.1	3032.6	2219.4	2251.7	2169.8	2111.6	2064.1	1932.5	1796.6	1781.6
52.5°	17770.4	11750.6	3149.0	2105.1	2133.1	2042.5	2098.6	2057.7	1913.2	1729.8	1716.9
55°	19116.2	12643.6	3261.1	1971.4	2012.4	1928.2	2062.0	2031.8	1824.7	1617.7	1606.9
57.5°	20483.7	13532.2	3371.2	1852.8	1895.8	1818.2	2003.8	1962.8	1725.5	1514.1	1509.8
60°	21905.1	14394.9	3423.0	1738.4	1768.6	1716.9	1915.3	1844.1	1613.4	1408.5	1402.0
62.5°	23235.9	15113.1	3338.8	1624.1	1643.5	1622.0	1798.9	1704.0	1501.2	1289.8	1287.6
65°	24571.0	15540.2	3080.0	1512.0	1516.3	1505.5	1634.9	1553.0	1369.6	1186.2	1173.3
67.5°	25781.0	15779.6	2668.1	1391.1	1380.4	1376.1	1481.7	1389.0	1242.4	1082.7	1069.8
70°	26037.7	15171.3	2038.2	1248.9	1248.9	1238.0	1313.5	1218.6	1102.2	972.7	968.4
72.5°	23781.5	12762.2	1447.3	1087.0	1104.3	1082.7	1145.3	1065.5	959.8	873.5	847.7
75°	19176.7	9358.7	1052.6	921.0	951.2	914.5	972.7	916.7	826.0	823.9	742.0
77.5°	13176.3	5786.8	763.5	759.2	780.7	733.3	800.2	770.0	688.1	651.4	610.4
80°	5622.9	2307.9	556.5	586.7	586.7	543.6	621.2	629.8	558.6	541.4	541.4
82.5°	1119.4	655.7	390.4	403.3	379.6	366.6	440.0	487.5	672.9	748.5	750.6
85°	336.5	241.6	235.1	220.0	194.1	196.3	258.8	489.6	603.9	345.1	297.7
87.5°	92.8	60.4	62.5	49.6	41.0	53.9	88.5	370.9	202.7	86.3	73.3
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)