

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: P970997

Luminaire Tested: **NAV-SB6C-760-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970997
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-760-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49151.8 lumens
Efficiency: N/A
Efficacy: 163.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
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

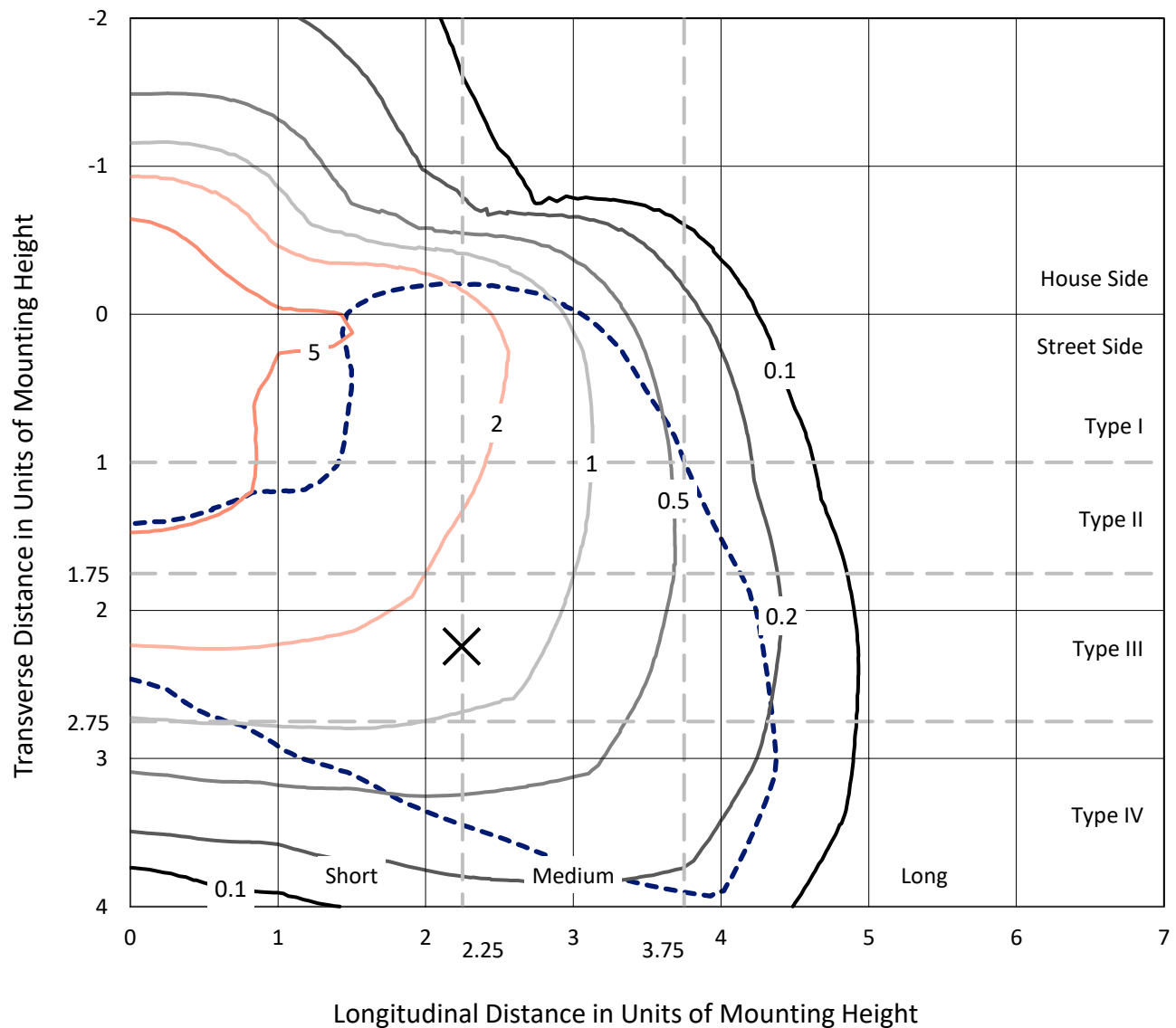


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Iso-Footcandle Lines of Horizontal Illumination

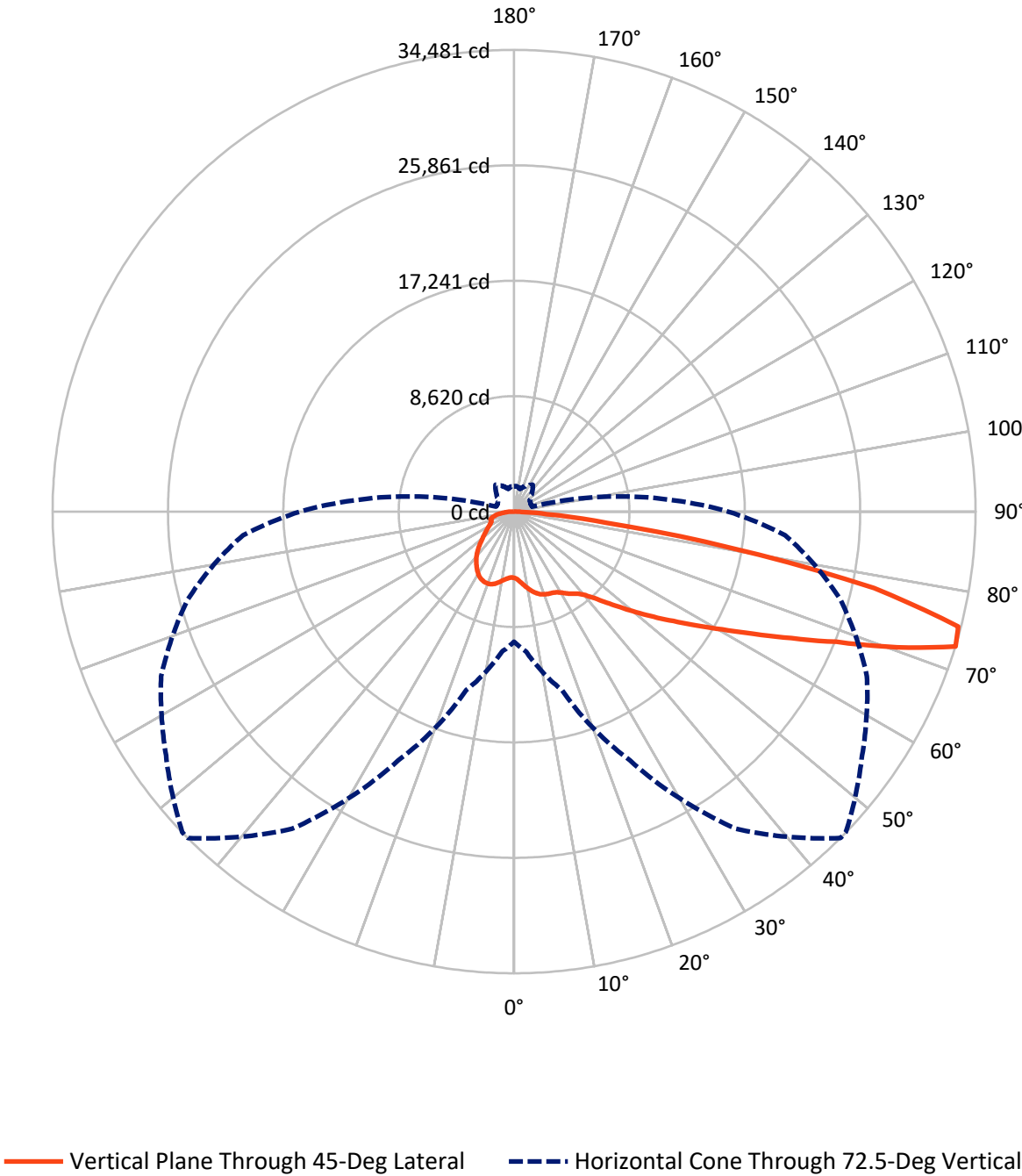
× Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11111.5	0.0	11111.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	38040.3	0.0	38040.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	49151.8	0.0	49151.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	504.7	1.0
10°-20°	1682.6	3.4
20°-30°	2927.1	6.0
30°-40°	4196.1	8.5
40°-50°	5908.4	12.0
50°-60°	9049.9	18.4
60°-70°	13110.1	26.7
70°-80°	10469.2	21.3
80°-90°	1303.9	2.7
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°	49151.8	100.0
0°-180°	49151.8	100.0

Coefficient of Utilization



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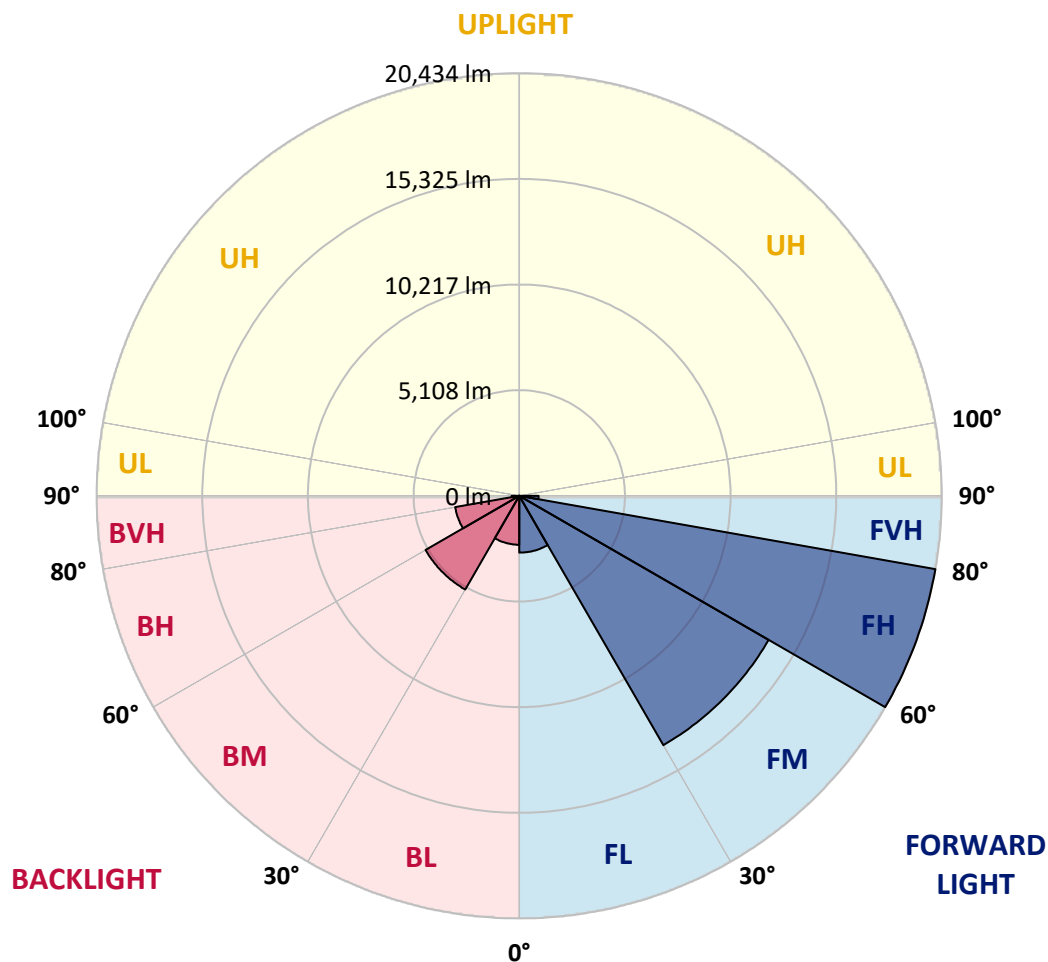
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2748.6	5.6			
FM	(30°-60°)	13922.4	28.3			
FH	(60°-80°)	20433.9	41.6			G5
FVH	(80°-90°)	935.4	1.9			G5
BL	(0°-30°)	2365.7	4.8	B3/2500		
BM	(30°-60°)	5232.0	10.6	B4/8500		
BH	(60°-80°)	3145.4	6.4	B4/5000		G4/5000
BVH	(80°-90°)	368.5	0.7			G3/500
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	4958.4	4958.4	4958.4	4958.4	4958.4	4958.4	4958.4	4958.4	4958.4	4958.4	4958.4
2.5°	5152.7	5186.3	5155.2	5126.7	5113.8	5080.2	5077.5	5056.8	5043.9	5007.6	4997.3
5°	5512.6	5556.6	5504.8	5447.9	5396.0	5313.2	5302.8	5243.3	5175.9	5098.2	5054.3
7.5°	5919.1	5957.9	5898.4	5812.9	5722.3	5585.0	5582.5	5473.7	5367.6	5235.5	5160.5
10°	6273.8	6325.6	6245.3	6128.8	6014.9	5859.5	5841.4	5717.1	5582.5	5411.6	5297.6
12.5°	6587.2	6623.3	6545.6	6403.3	6271.3	6115.9	6092.6	5955.4	5805.2	5611.0	5465.9
15°	6835.7	6882.3	6778.7	6625.9	6486.1	6333.4	6312.7	6188.3	6038.2	5833.7	5647.2
17.5°	6998.8	7037.6	6931.5	6760.6	6625.9	6499.1	6483.5	6380.0	6247.9	6040.7	5841.4
20°	7060.9	7102.4	6991.0	6817.6	6693.2	6594.8	6587.2	6512.0	6421.4	6232.4	6030.4
22.5°	7123.1	7162.0	7016.9	6835.7	6727.0	6664.8	6662.2	6613.0	6576.8	6421.4	6224.6
25°	7374.3	7384.6	7190.4	6928.9	6773.5	6719.2	6716.6	6714.0	6729.5	6607.9	6434.3
27.5°	7591.8	7589.2	7423.5	7177.5	6936.7	6822.7	6820.1	6846.1	6895.3	6794.2	6651.8
30°	7910.2	7881.7	7684.9	7428.6	7208.5	7032.4	7016.9	6993.7	7032.4	6952.2	6869.3
32.5°	8586.0	8495.4	8176.9	7721.2	7433.8	7299.1	7278.4	7133.5	7149.0	7099.8	7058.4
35°	9554.4	9435.3	9010.7	8275.3	7713.4	7521.9	7511.5	7327.6	7296.6	7252.6	7268.1
37.5°	10706.6	10559.0	10064.5	9078.0	8195.1	7780.8	7765.2	7599.6	7472.7	7426.0	7514.1
40°	11864.1	11677.6	11268.5	10056.8	8904.5	8213.2	8164.0	7912.8	7767.9	7690.2	7876.6
42.5°	12987.8	12832.5	12482.9	11154.6	9779.7	8844.9	8736.2	8306.4	8197.6	8125.2	8461.8
45°	13982.1	13842.3	13586.0	12327.6	10805.0	9704.6	9598.4	8896.8	8863.1	8863.1	9349.8
47.5°	14789.9	14758.9	14487.0	13523.7	12014.2	10683.4	10499.5	9717.5	9808.2	9948.0	10610.8
50°	15685.8	15600.4	15310.4	14701.9	13435.7	11804.5	11654.4	10724.8	11064.0	11447.2	12433.7
52.5°	16509.3	16555.8	16232.2	15929.2	15041.1	13055.1	12791.0	11913.3	12646.0	13280.4	14569.9
55°	17355.9	17358.5	17267.9	17226.5	16724.1	14437.8	14147.8	13342.5	14507.7	15294.8	17060.7
57.5°	18150.8	18156.0	18290.6	18655.7	18676.4	16032.7	15703.9	15098.0	16576.5	17379.2	19629.3
60°	18860.3	18896.5	19264.3	20118.7	20393.1	17860.8	17550.2	17172.0	18715.3	19523.2	22329.9
62.5°	19098.5	19230.5	20048.8	21263.1	22089.2	20103.1	19797.6	19572.4	20962.8	21713.7	24587.8
65°	18694.6	18997.6	20579.5	22208.3	23834.3	22767.5	22464.5	22218.6	23298.2	24005.2	26441.7
67.5°	17702.9	18093.8	20548.5	23200.0	25952.3	25973.0	25690.8	25113.4	25802.1	26074.1	27044.9
70°	15090.3	15675.4	18738.5	23570.2	28383.7	30356.7	30084.8	28598.5	28300.8	26985.4	25346.4
72.5°	9722.7	10509.8	13798.2	20522.6	28924.8	34481.4	34465.8	31744.6	29090.5	25214.4	20328.4
75°	3547.3	4028.9	6411.1	12881.7	24279.6	34271.7	34372.7	31205.9	26555.6	19476.5	12664.2
77.5°	1292.0	1413.8	2092.1	4950.6	14932.3	27498.1	27707.8	24947.7	18901.7	9774.5	5018.0
80°	678.3	745.7	1071.9	1921.3	6398.0	16330.6	16659.4	14826.2	8883.8	2944.0	1504.4
82.5°	375.5	406.5	600.8	1043.4	2881.9	6983.3	7180.0	5857.0	3125.2	1248.0	621.5
85°	201.9	214.9	282.2	569.6	1408.6	2420.9	2475.4	1750.4	1245.5	732.8	300.3
87.5°	59.6	72.5	93.2	181.2	551.6	543.8	556.7	347.0	492.0	370.2	98.4
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°	4958.4	4958.4	4958.4	4958.4	4958.4	4958.4	4958.4	4958.4	4958.4	4958.4	4958.4
2.5°	4981.8	4974.0	4945.5	4932.6	4917.0	4914.5	4927.4	4929.9	4932.6	4935.2	4945.5
5°	5028.3	5002.5	4976.6	4961.1	4966.2	4968.8	4994.7	5012.9	5025.8	5036.1	5041.4
7.5°	5119.0	5098.2	5054.3	5051.7	5059.4	5082.8	5116.4	5157.8	5181.2	5199.3	5204.4
10°	5253.6	5214.8	5163.0	5170.8	5186.3	5220.0	5289.9	5323.5	5362.4	5396.0	5388.3
12.5°	5390.9	5357.2	5297.6	5302.8	5328.8	5388.3	5455.6	5497.1	5522.9	5548.8	5559.2
15°	5569.5	5510.0	5445.2	5445.2	5491.8	5556.6	5587.7	5621.3	5636.9	5665.4	5675.7
17.5°	5753.3	5675.7	5590.2	5585.0	5642.0	5673.1	5691.2	5696.4	5701.6	5732.6	5743.0
20°	5937.2	5851.7	5730.1	5719.7	5732.6	5727.5	5724.9	5719.7	5727.5	5766.3	5781.8
22.5°	6118.4	6020.0	5851.7	5805.2	5768.9	5719.7	5717.1	5714.6	5719.7	5758.6	5784.5
25°	6330.8	6211.7	5986.4	5846.6	5724.9	5657.6	5665.4	5667.9	5673.1	5704.1	5745.6
27.5°	6561.2	6429.2	6110.6	5833.7	5613.5	5567.0	5554.0	5561.8	5579.9	5629.1	5678.3
30°	6791.6	6636.4	6224.6	5781.8	5473.7	5409.0	5367.6	5385.7	5442.6	5491.8	5546.3
32.5°	7001.4	6846.1	6315.2	5667.9	5295.0	5194.1	5139.8	5163.0	5220.0	5238.1	5302.8
35°	7247.4	7071.3	6354.1	5486.7	5100.9	4945.5	4873.1	4839.3	4867.8	4849.7	4906.7
37.5°	7521.9	7338.0	6349.0	5248.5	4873.1	4694.4	4593.3	4466.5	4407.0	4344.8	4383.6
40°	7928.4	7664.2	6286.7	4961.1	4590.8	4427.7	4246.4	4031.5	3896.8	3775.2	3783.0
42.5°	8482.5	8117.4	6172.9	4645.2	4272.3	4119.6	3873.6	3622.4	3410.1	3208.1	3190.0
45°	9308.4	8710.3	6030.4	4308.6	3927.9	3777.7	3511.0	3228.9	2988.0	2729.1	2698.0
47.5°	10499.5	9507.8	5895.8	3925.3	3565.5	3428.2	3187.4	2925.9	2641.0	2389.9	2361.4
50°	12135.9	10652.3	5771.5	3552.4	3208.1	3104.5	2912.9	2646.2	2358.8	2156.9	2143.9
52.5°	14217.7	12208.5	5719.7	3192.6	2874.1	2835.3	2682.5	2434.0	2162.0	1991.2	1978.2
55°	16607.6	14070.1	5719.7	2848.2	2581.5	2594.5	2488.3	2257.9	2022.2	1869.5	1853.9
57.5°	19046.8	15955.1	5616.2	2529.7	2332.9	2387.3	2320.0	2118.1	1905.7	1747.7	1721.9
60°	21294.2	17534.6	5196.6	2239.7	2112.8	2198.3	2154.2	1980.8	1721.9	1589.8	1569.1
62.5°	23021.3	18425.3	4388.8	2009.3	1931.6	2030.0	2006.6	1799.6	1688.2	1633.8	1615.7
65°	23886.1	18280.3	3355.7	1804.7	1778.8	1931.6	1882.4	1874.6	1786.6	1724.5	1703.8
67.5°	23355.2	17032.2	2434.0	1654.6	1690.8	1841.0	2030.0	2061.1	1897.9	1776.2	1755.5
70°	21027.5	14774.5	1812.5	1512.2	1579.4	1843.6	2314.9	2156.9	1861.7	1719.2	1696.0
72.5°	15996.6	11017.4	1406.0	1361.9	1434.5	1856.5	2441.7	2112.8	1758.1	1900.6	1885.0
75°	9147.9	6048.5	1128.9	1178.1	1253.2	1734.8	2377.0	1999.0	1677.8	1745.2	1745.2
77.5°	3487.8	2325.2	932.1	996.9	1007.3	1514.7	2273.3	1991.2	1597.6	1558.7	1421.5
80°	1209.2	908.9	771.6	792.3	779.4	1346.4	2180.2	1732.2	1307.6	1170.3	1131.5
82.5°	494.6	453.2	611.1	585.2	554.1	1046.1	1760.7	1416.3	1069.4	945.0	934.7
85°	214.9	287.4	404.0	354.8	321.0	725.0	1411.1	1198.8	903.6	779.4	776.7
87.5°	44.0	108.8	170.9	160.5	165.7	484.2	1002.0	851.9	639.6	479.0	375.5
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)