

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: P971586

Luminaire Tested: **NAV-SB6D-830-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971586
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-SB6D-830-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56723.5 lumens
Efficiency: N/A
Efficacy: 128.9 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): 440.1
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

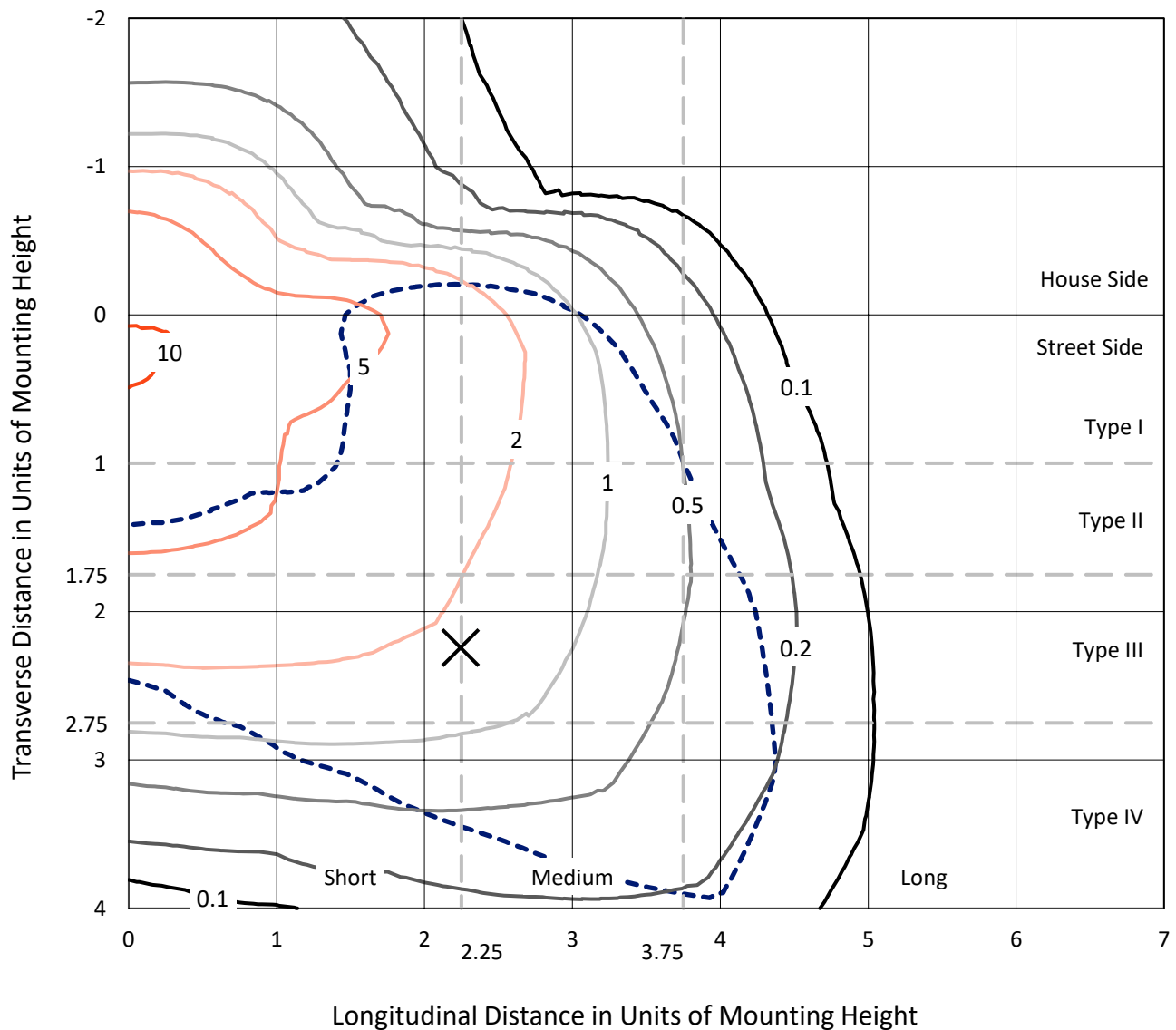


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Iso-Footcandle Lines of Horizontal Illumination

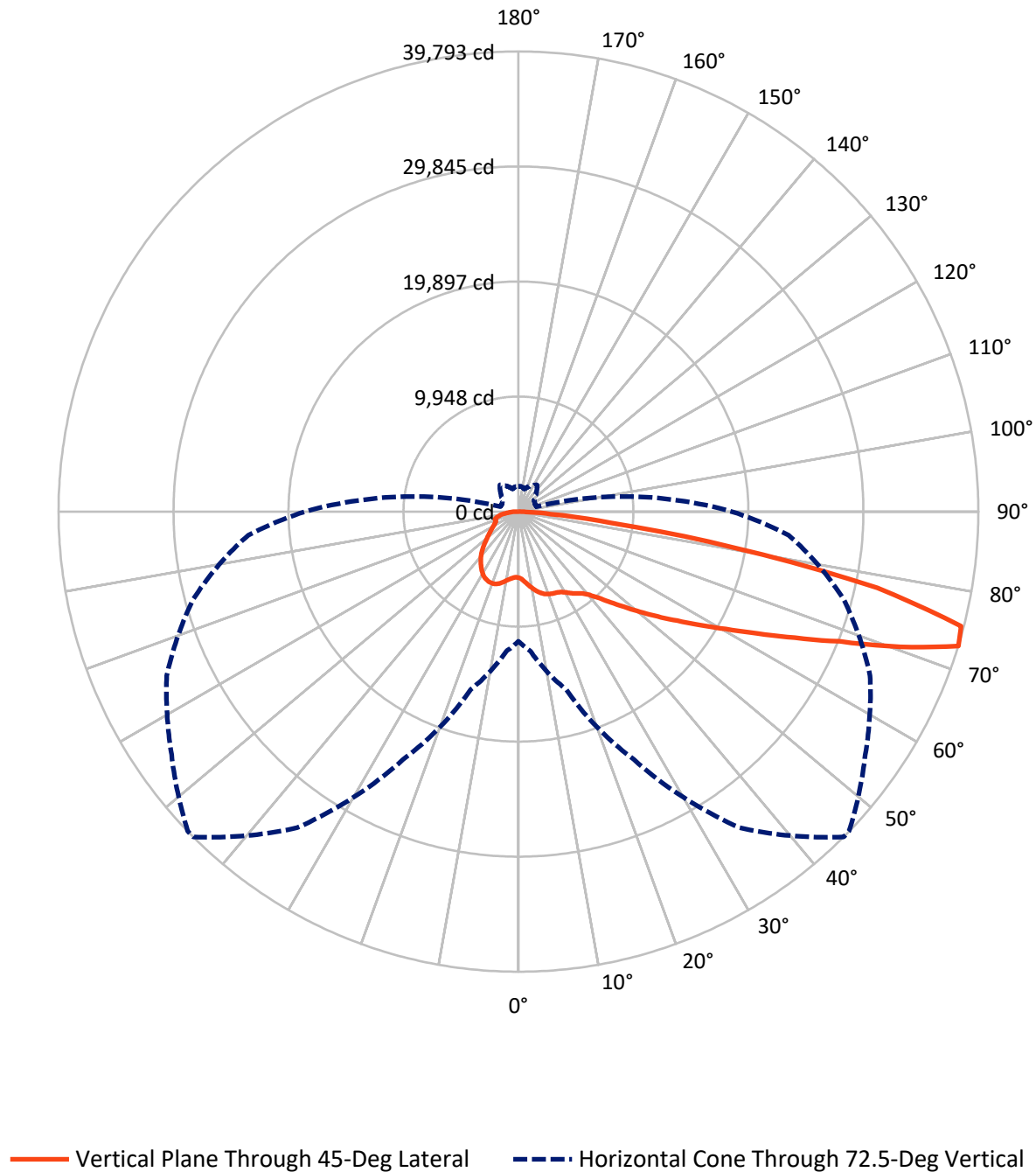
× Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12823.2	0.0	12823.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	43900.3	0.0	43900.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	56723.5	0.0	56723.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	582.4	1.0
10°-20°	1941.9	3.4
20°-30°	3378.0	6.0
30°-40°	4842.5	8.5
40°-50°	6818.5	12.0
50°-60°	10444.0	18.4
60°-70°	15129.6	26.7
70°-80°	12081.9	21.3
80°-90°	1504.8	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°	56723.5	100.0
0°-180°	56723.5	100.0

Coefficient of Utilization



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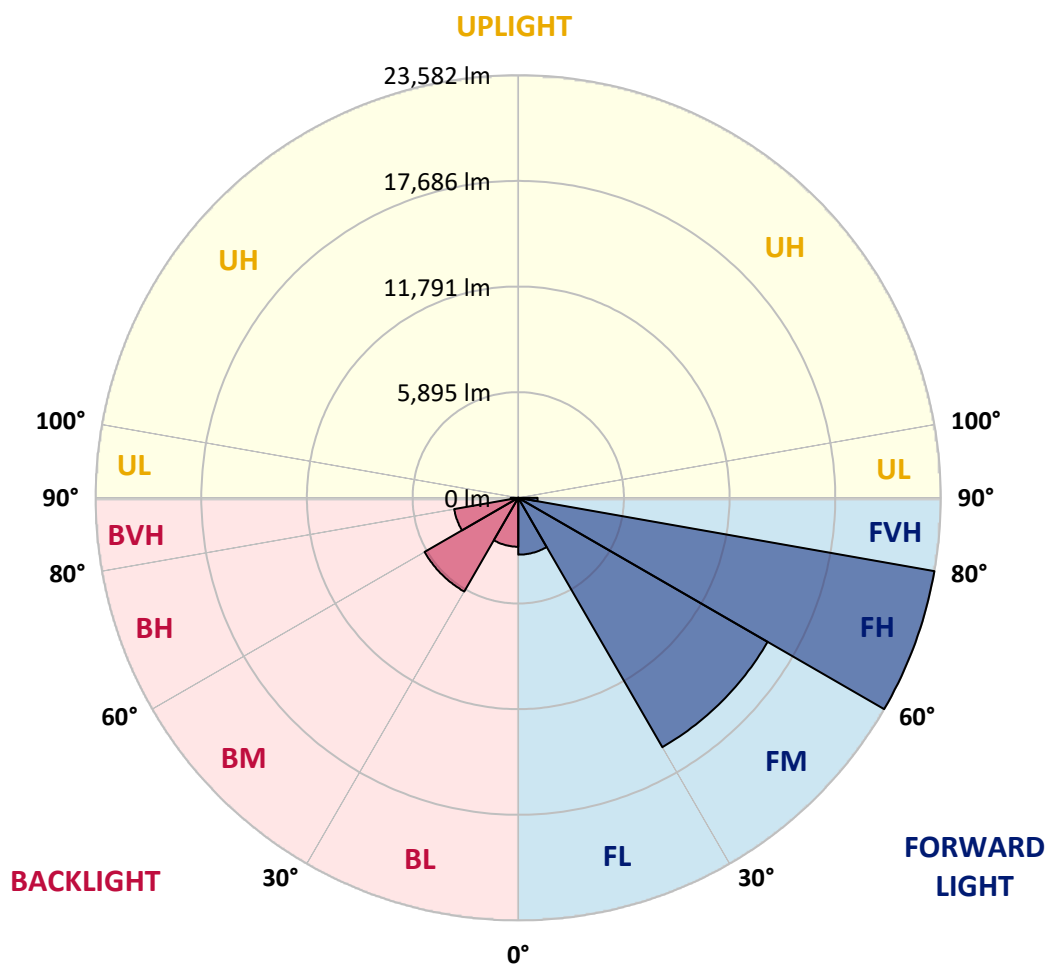
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3172.1	5.6			
FM	(30°-60°)	16067.0	28.3			
FH	(60°-80°)	23581.6	41.6			G5
FVH	(80°-90°)	1079.5	1.9			G5
BL	(0°-30°)	2730.2	4.8	B4/5000		
BM	(30°-60°)	6037.9	10.6	B4/8500		
BH	(60°-80°)	3629.9	6.4	B4/5000		G4/5000
BVH	(80°-90°)	425.2	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°	5722.3	5722.3	5722.3	5722.3	5722.3	5722.3	5722.3	5722.3	5722.3	5722.3	5722.3
2.5°	5946.4	5985.3	5949.4	5916.5	5901.5	5862.7	5859.7	5835.8	5820.9	5779.1	5767.2
5°	6361.8	6412.6	6352.7	6287.0	6227.3	6131.7	6119.8	6051.0	5973.3	5883.7	5832.9
7.5°	6830.9	6875.7	6807.0	6708.4	6603.8	6445.4	6442.4	6317.0	6194.4	6042.1	5955.4
10°	7240.3	7300.0	7207.4	7072.9	6941.5	6762.1	6741.2	6597.8	6442.4	6245.2	6113.7
12.5°	7601.8	7643.6	7554.0	7389.6	7237.3	7058.0	7031.1	6872.7	6699.4	6475.3	6308.0
15°	7888.7	7942.5	7823.0	7646.7	7485.3	7309.0	7285.1	7141.7	6968.4	6732.3	6517.2
17.5°	8077.0	8121.8	7999.3	7802.1	7646.7	7500.2	7482.3	7362.8	7210.4	6971.3	6741.2
20°	8148.6	8196.5	8068.0	7867.8	7724.4	7610.8	7601.8	7515.2	7410.6	7192.4	6959.3
22.5°	8220.4	8265.2	8097.9	7888.7	7763.2	7691.5	7688.5	7631.7	7589.9	7410.6	7183.5
25°	8510.3	8522.2	8298.1	7996.2	7817.0	7754.2	7751.3	7748.3	7766.2	7625.8	7425.5
27.5°	8761.3	8758.2	8567.1	8283.1	8005.2	7873.7	7870.8	7900.7	7957.4	7840.9	7676.5
30°	9128.8	9096.0	8868.8	8573.0	8319.0	8115.8	8097.9	8071.0	8115.8	8023.2	7927.6
32.5°	9908.7	9804.1	9436.6	8910.6	8578.9	8423.6	8399.7	8232.3	8250.2	8193.5	8145.7
35°	11026.2	10888.8	10398.7	9550.1	8901.7	8680.5	8668.6	8456.5	8420.6	8369.8	8387.7
37.5°	12356.0	12185.6	11614.9	10476.4	9457.5	8979.4	8961.5	8770.2	8623.7	8570.0	8671.6
40°	13691.6	13476.5	13004.4	11606.0	10276.2	9478.4	9421.6	9131.7	8964.4	8874.8	9089.9
42.5°	14988.6	14809.2	14405.9	12873.0	11286.2	10207.5	10082.0	9586.0	9460.4	9376.8	9765.3
45°	16136.0	15974.6	15678.8	14226.6	12469.5	11199.6	11077.1	10267.2	10228.4	10228.4	10790.2
47.5°	17068.3	17032.4	16718.7	15607.1	13865.0	12329.1	12116.9	11214.5	11319.1	11480.4	12245.4
50°	18102.2	18003.6	17668.9	16966.7	15505.5	13623.0	13449.6	12376.9	12768.3	13210.6	14349.1
52.5°	19052.4	19106.2	18732.7	18383.1	17358.2	15066.3	14761.4	13748.4	14594.1	15326.2	16814.3
55°	20029.5	20032.5	19927.9	19880.1	19300.4	16661.9	16327.2	15398.0	16742.6	17651.0	19688.9
57.5°	20946.9	20952.8	21108.2	21529.6	21553.5	18502.6	18123.1	17423.9	19130.1	20056.4	22653.1
60°	21765.7	21807.5	22231.8	23217.9	23534.6	20612.2	20253.7	19817.4	21598.3	22530.6	25769.7
62.5°	22040.6	22193.0	23137.2	24538.6	25491.9	23200.0	22847.4	22587.4	24192.0	25058.6	28375.4
65°	21574.4	21924.0	23749.8	25629.3	27505.9	26274.7	25925.1	25641.3	26887.3	27703.1	30515.0
67.5°	20430.0	20881.2	23713.9	26773.8	29950.2	29974.1	29648.3	28982.0	29776.9	30090.6	31211.1
70°	17415.0	18090.2	21625.2	27201.0	32756.0	35033.0	34719.2	33004.1	32660.4	31142.5	29250.9
72.5°	11220.5	12128.9	15923.8	23684.1	33380.6	39793.2	39775.2	36634.6	33571.8	29098.5	23459.9
75°	4093.7	4649.5	7398.7	14866.0	28019.8	39551.1	39667.6	36013.2	30646.4	22476.8	14615.1
77.5°	1491.1	1631.5	2414.4	5713.3	17232.6	31734.1	31976.1	28790.8	21813.4	11280.2	5791.0
80°	782.9	860.6	1237.1	2217.2	7383.7	18846.3	19225.7	17110.1	10252.4	3397.6	1736.1
82.5°	433.3	469.1	693.2	1204.3	3325.8	8059.1	8286.1	6759.2	3606.7	1440.3	717.2
85°	233.1	248.0	325.7	657.4	1625.5	2793.9	2856.7	2020.0	1437.3	845.6	346.7
87.5°	68.8	83.6	107.5	209.2	636.5	627.5	642.5	400.4	567.7	427.3	113.6
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°	5722.3	5722.3	5722.3	5722.3	5722.3	5722.3	5722.3	5722.3	5722.3	5722.3	5722.3
2.5°	5749.2	5740.2	5707.4	5692.4	5674.5	5671.5	5686.4	5689.5	5692.4	5695.4	5707.4
5°	5802.9	5773.1	5743.2	5725.2	5731.3	5734.3	5764.1	5785.0	5800.0	5812.0	5817.9
7.5°	5907.6	5883.7	5832.9	5829.9	5838.8	5865.8	5904.6	5952.4	5979.2	6000.1	6006.2
10°	6063.0	6018.1	5958.3	5967.3	5985.3	6024.1	6104.8	6143.6	6188.4	6227.3	6218.4
12.5°	6221.3	6182.5	6113.7	6119.8	6149.6	6218.4	6296.1	6343.8	6373.8	6403.6	6415.6
15°	6427.5	6358.8	6284.1	6284.1	6337.9	6412.6	6448.4	6487.2	6505.2	6538.1	6550.1
17.5°	6639.6	6550.1	6451.5	6445.4	6511.2	6547.0	6567.9	6573.9	6579.9	6615.8	6627.8
20°	6851.8	6753.2	6612.8	6600.8	6615.8	6609.8	6606.7	6600.8	6609.8	6654.6	6672.5
22.5°	7061.0	6947.4	6753.2	6699.4	6657.6	6600.8	6597.8	6594.8	6600.8	6645.6	6675.5
25°	7306.0	7168.5	6908.6	6747.3	6606.7	6529.0	6538.1	6541.0	6547.0	6582.9	6630.7
27.5°	7572.0	7419.6	7052.0	6732.3	6478.3	6424.5	6409.5	6418.5	6439.5	6496.2	6553.0
30°	7837.9	7658.6	7183.5	6672.5	6317.0	6242.2	6194.4	6215.3	6281.1	6337.9	6400.6
32.5°	8080.0	7900.7	7288.1	6541.0	6110.7	5994.2	5931.5	5958.3	6024.1	6045.0	6119.8
35°	8363.8	8160.6	7333.0	6331.8	5886.7	5707.4	5623.7	5584.8	5617.7	5596.8	5662.5
37.5°	8680.5	8468.4	7326.9	6056.9	5623.7	5417.5	5301.0	5154.5	5085.8	5014.1	5058.9
40°	9149.7	8844.9	7255.3	5725.2	5298.0	5109.7	4900.5	4652.6	4497.2	4356.8	4365.7
42.5°	9789.2	9367.8	7123.7	5360.7	4930.5	4754.2	4470.2	4180.5	3935.4	3702.3	3681.4
45°	10742.4	10052.1	6959.3	4972.3	4533.1	4359.7	4051.9	3726.2	3448.3	3149.5	3113.6
47.5°	12116.9	10972.4	6804.1	4530.0	4114.7	3956.3	3678.4	3376.6	3047.9	2758.1	2725.2
50°	14005.4	12293.2	6660.6	4099.7	3702.3	3582.8	3361.7	3053.9	2722.2	2489.1	2474.1
52.5°	16407.9	14089.1	6600.8	3684.4	3316.8	3272.0	3095.7	2808.8	2495.1	2297.8	2283.0
55°	19166.0	16237.5	6600.8	3287.0	2979.2	2994.1	2871.6	2605.7	2333.7	2157.4	2139.5
57.5°	21980.8	18413.0	6481.3	2919.4	2692.4	2755.1	2677.4	2444.3	2199.2	2017.0	1987.1
60°	24574.5	20235.8	5997.2	2584.7	2438.4	2537.0	2486.1	2286.0	1987.1	1834.7	1810.8
62.5°	26567.6	21263.6	5064.9	2318.8	2229.2	2342.7	2315.8	2076.8	1948.3	1885.5	1864.6
65°	27565.6	21096.3	3872.7	2082.7	2052.9	2229.2	2172.4	2163.5	2061.8	1990.1	1966.2
67.5°	26953.1	19656.0	2808.8	1909.5	1951.3	2124.6	2342.7	2378.5	2190.3	2049.9	2025.9
70°	24266.8	17050.4	2091.7	1745.1	1822.8	2127.6	2671.4	2489.1	2148.5	1984.1	1957.2
72.5°	18460.8	12714.5	1622.6	1571.7	1655.5	2142.5	2817.8	2438.4	2029.0	2193.3	2175.4
75°	10557.1	6980.4	1302.9	1359.6	1446.3	2002.0	2743.1	2306.9	1936.3	2014.0	2014.0
77.5°	4025.1	2683.3	1075.7	1150.5	1162.4	1748.0	2623.6	2297.8	1843.7	1798.9	1640.5
80°	1395.4	1048.9	890.4	914.4	899.4	1553.8	2516.1	1999.1	1509.0	1350.6	1305.8
82.5°	570.7	523.0	705.2	675.3	639.5	1207.2	2032.0	1634.5	1234.1	1090.7	1078.7
85°	248.0	331.7	466.2	409.4	370.5	836.7	1628.5	1383.5	1042.8	899.4	896.5
87.5°	50.8	125.5	197.2	185.2	191.3	558.8	1156.4	983.1	738.1	552.8	433.3
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)