

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: P968153

Luminaire Tested: **NAV-SB5B-722-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968153
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-SB5B-722-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23939.9 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

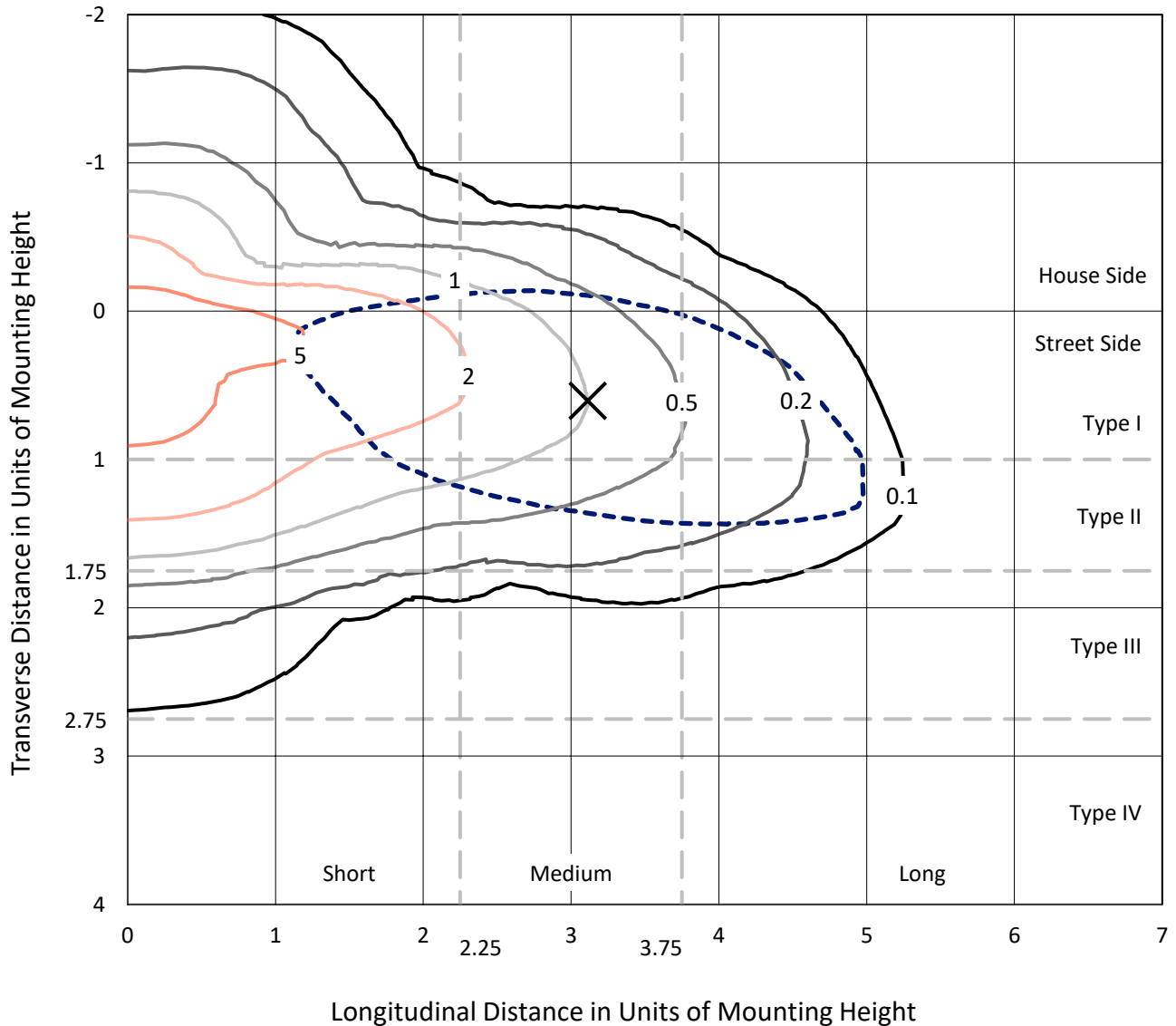
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

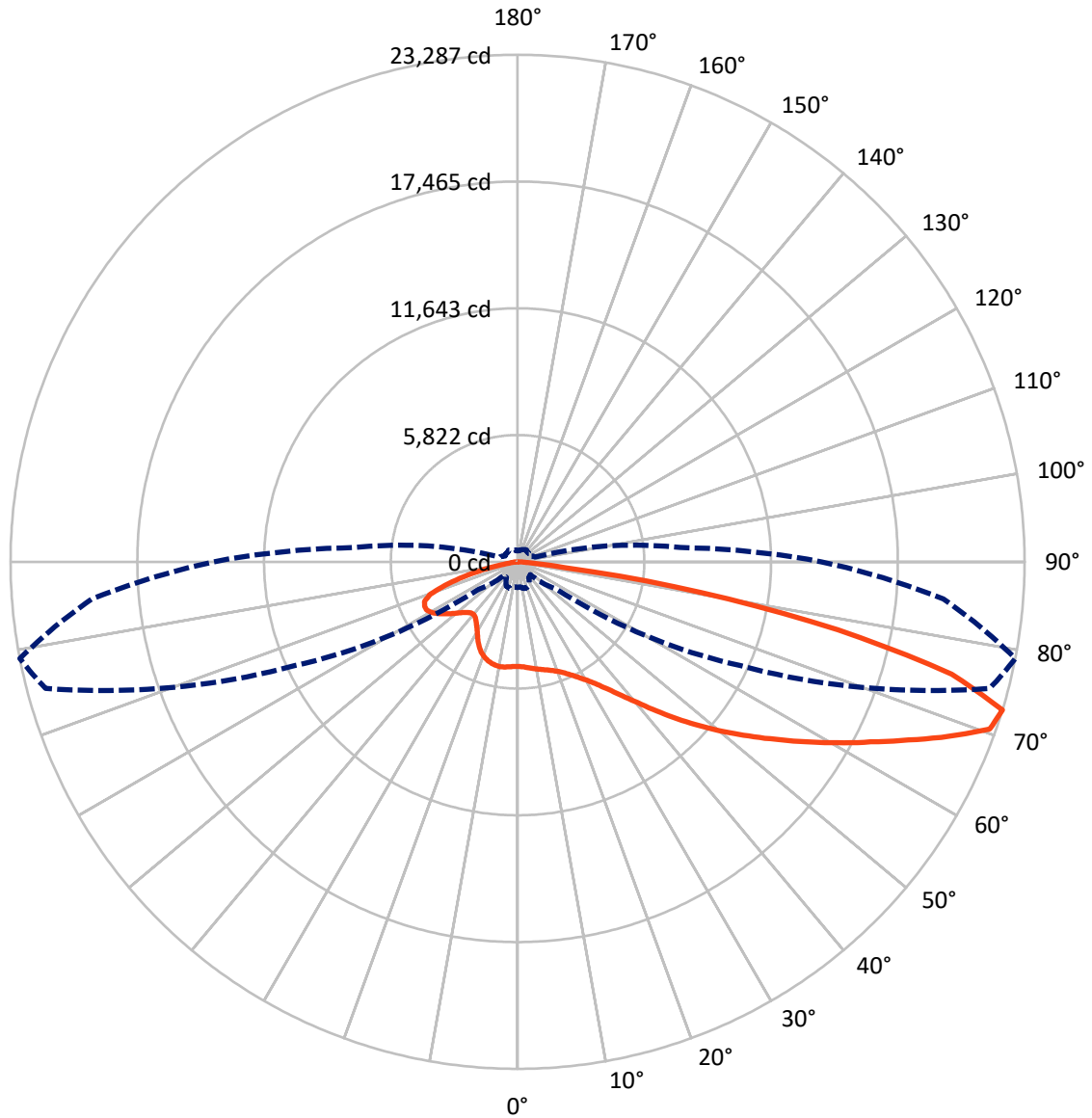
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5268.1	0.0	5268.1
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	18671.8	0.0	18671.8
	% Fixture	78.0	0.0	78.0
Total	Lumens	23939.9	0.0	23939.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.2	1.8
10°-20°	1140.5	4.8
20°-30°	1840.3	7.7
30°-40°	2762.0	11.5
40°-50°	3918.1	16.4
50°-60°	4948.0	20.7
60°-70°	5025.4	21.0
70°-80°	3425.0	14.3
80°-90°	444.4	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°	23939.9	100.0
0°-180°	23939.9	100.0

Coefficient of Utilization

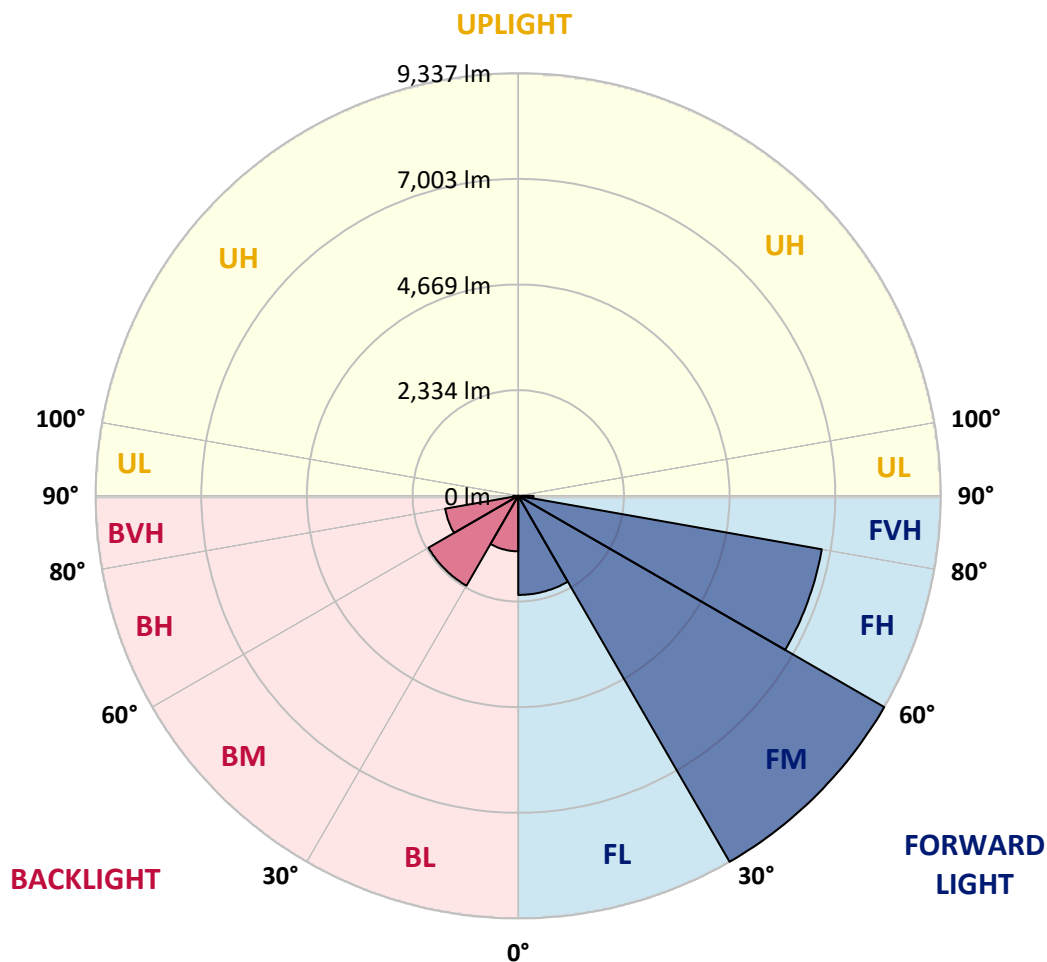


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2189.9	9.1			
FM (30°-60°)	9337.1	39.0			
FH (60°-80°)	6810.1	28.4			G3/7500
FVH (80°-90°)	334.7	1.4			G3/500
BL (0°-30°)	1227.1	5.1	B3/2500		
BM (30°-60°)	2291.1	9.6	B2/2500		
BH (60°-80°)	1640.3	6.9	B3/2500		G3/2500
BVH (80°-90°)	109.6	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-G3
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4805.7	4805.7	4805.7	4805.7	4805.7	4805.7	4805.7	4805.7	4805.7	4805.7	4805.7
2.5°	4808.3	4785.4	4799.4	4794.3	4800.7	4808.3	4810.7	4814.5	4827.2	4826.0	4824.7
5°	4798.1	4775.3	4794.3	4788.0	4804.5	4822.2	4837.4	4851.3	4871.5	4880.4	4867.7
7.5°	4776.6	4761.4	4780.4	4799.4	4829.8	4856.3	4877.9	4909.5	4938.7	4943.8	4952.6
10°	4651.2	4639.9	4684.1	4733.6	4817.1	4889.2	4936.1	4972.9	5004.6	5009.6	5022.3
12.5°	4520.8	4506.8	4556.2	4623.4	4758.9	4889.2	4988.1	5036.1	5064.0	5080.5	5099.5
15°	4499.2	4487.9	4515.7	4574.0	4686.7	4855.1	5023.5	5112.2	5136.2	5155.2	5162.8
17.5°	4603.1	4581.5	4592.9	4613.2	4679.1	4823.4	5051.4	5198.3	5235.0	5255.3	5255.3
20°	4843.7	4813.3	4795.6	4755.1	4743.7	4828.5	5048.8	5302.1	5350.2	5375.5	5381.9
22.5°	5164.1	5143.9	5105.8	5003.2	4891.8	4890.6	5096.9	5435.1	5525.0	5549.0	5533.9
25°	5551.6	5521.2	5473.1	5333.8	5119.8	5013.4	5178.0	5604.8	5755.5	5761.8	5717.4
27.5°	5997.3	5951.8	5885.9	5702.3	5413.5	5205.9	5302.1	5799.8	6020.1	6017.6	5926.4
30°	6467.1	6421.5	6351.9	6129.0	5765.6	5465.5	5474.3	6010.0	6334.2	6320.3	6164.5
32.5°	6810.3	6776.1	6762.1	6589.9	6170.8	5771.9	5671.8	6243.0	6721.6	6709.0	6491.2
35°	7073.7	7029.3	7045.8	6958.4	6612.8	6115.0	5913.7	6520.3	7192.7	7191.5	6920.5
37.5°	7334.6	7295.3	7309.3	7251.0	7021.8	6550.7	6208.8	6859.7	7776.5	7804.4	7439.7
40°	7572.6	7530.9	7586.5	7532.1	7339.6	7014.2	6544.4	7243.4	8452.8	8506.0	8067.8
42.5°	7715.7	7682.8	7775.2	7776.5	7615.6	7405.5	6912.9	7666.4	9235.4	9354.4	8840.2
45°	7765.1	7753.7	7893.0	7922.1	7860.1	7632.2	7244.7	8127.3	10078.7	10291.4	9720.3
47.5°	7711.9	7690.4	7882.9	7990.5	8039.9	7738.5	7519.4	8626.2	10939.8	11251.3	10680.2
50°	7443.4	7401.6	7687.9	7914.5	8090.5	7808.1	7796.8	9202.3	11918.7	12259.3	11645.1
52.5°	6961.0	6929.3	7254.7	7648.7	7979.1	7842.4	8108.3	9831.8	12848.2	13288.8	12634.2
55°	6344.3	6302.5	6660.9	7175.0	7701.7	7831.0	8419.8	10535.9	13944.8	14391.8	13656.1
57.5°	5366.7	5283.2	5736.4	6344.3	7249.7	7817.1	8744.0	11236.2	15059.2	15594.8	14746.4
60°	3940.8	3816.7	4372.6	5093.1	6365.9	7681.6	9145.4	12021.2	16396.4	16878.9	15936.7
62.5°	2294.6	2222.4	2585.9	3258.3	4798.1	6883.8	9370.9	12934.3	17710.9	18217.3	17106.8
65°	1781.8	1761.5	1793.1	1845.0	2670.6	5153.9	8675.6	13824.5	19382.3	19737.0	18326.3
67.5°	1629.7	1614.6	1628.5	1530.9	1354.9	2870.7	6863.5	14049.9	21173.0	21388.3	19393.8
70°	1448.6	1430.9	1476.5	1393.0	1066.2	1305.5	4434.7	13231.8	22597.6	23001.5	20205.5
72.5°	1180.2	1160.0	1266.3	1228.4	897.8	838.3	2227.4	11288.0	22448.1	23286.5	19624.2
75°	906.7	895.3	1021.9	1053.6	732.0	659.8	1068.8	8390.6	19754.7	20599.3	16913.0
77.5°	704.1	695.3	759.8	875.0	590.1	511.6	657.2	5322.4	14886.9	15035.1	11655.3
80°	528.1	502.8	562.2	677.5	459.7	373.6	445.8	3103.8	9410.1	8529.9	5072.9
82.5°	330.5	317.9	367.3	452.1	324.2	257.1	290.0	1714.6	3771.1	2221.2	978.9
85°	188.7	183.6	200.1	258.3	176.0	148.1	165.8	757.3	688.9	473.7	295.1
87.5°	76.0	73.5	91.2	115.2	64.6	54.4	58.2	182.3	152.0	140.5	97.5
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°	4805.7	4805.7	4805.7	4805.7	4805.7	4805.7	4805.7	4805.7	4805.7	4805.7	4805.7
2.5°	4819.7	4819.7	4801.9	4774.0	4742.4	4722.2	4689.2	4680.4	4646.1	4636.0	4652.5
5°	4877.9	4867.7	4813.3	4734.8	4627.2	4528.3	4419.5	4351.1	4254.9	4220.6	4246.0
7.5°	4951.4	4923.5	4829.8	4657.5	4432.1	4210.5	3980.1	3805.3	3638.1	3578.7	3586.3
10°	5018.4	4979.2	4819.7	4518.3	4128.2	3744.5	3377.3	3120.2	2925.2	2845.4	2863.1
12.5°	5085.5	5013.4	4752.5	4286.5	3696.4	3176.0	2784.6	2584.5	2464.3	2368.1	2399.7
15°	5148.9	5047.6	4648.7	3976.3	3222.8	2694.7	2406.0	2246.5	2150.2	2086.9	2098.3
17.5°	5222.4	5076.7	4492.9	3582.5	2772.0	2361.7	2126.2	2029.9	2010.9	2003.4	2008.4
20°	5324.9	5103.3	4287.8	3141.7	2440.2	2095.8	1974.3	1965.3	1964.1	1960.3	1972.9
22.5°	5435.1	5134.9	4016.8	2741.6	2157.8	1929.9	1908.3	1890.6	1879.2	1878.0	1891.8
25°	5565.5	5145.1	3677.4	2413.6	1917.3	1851.4	1826.0	1799.5	1791.8	1791.8	1799.5
27.5°	5692.1	5110.9	3282.4	2128.7	1781.8	1779.2	1746.3	1737.4	1736.1	1739.9	1750.1
30°	5818.7	5046.3	2889.8	1865.3	1703.2	1703.2	1691.8	1698.1	1703.2	1715.8	1724.8
32.5°	5989.7	4977.9	2561.8	1670.2	1634.9	1622.2	1633.5	1646.3	1651.3	1667.8	1681.7
35°	6240.4	4929.8	2300.9	1563.9	1563.9	1547.4	1553.8	1551.2	1539.9	1532.3	1550.0
37.5°	6572.2	4927.3	2085.7	1514.5	1504.4	1501.8	1503.2	1486.7	1442.4	1389.2	1390.4
40°	6971.1	4995.6	1919.7	1480.3	1472.7	1487.9	1480.3	1436.0	1314.5	1222.0	1219.4
42.5°	7506.8	5190.7	1813.4	1438.6	1461.3	1480.3	1450.0	1296.7	1214.4	1152.4	1149.8
45°	8137.4	5507.2	1758.9	1394.2	1439.8	1462.6	1315.7	1248.6	1182.7	1108.0	1103.0
47.5°	8851.6	5906.2	1746.3	1352.4	1391.6	1405.6	1258.7	1228.4	1153.6	1072.6	1066.2
50°	9629.2	6378.5	1780.4	1303.1	1322.0	1274.0	1239.7	1211.9	1134.7	1054.8	1046.0
52.5°	10433.3	6899.0	1848.8	1235.9	1252.4	1199.2	1232.2	1208.1	1123.2	1015.6	1008.0
55°	11223.4	7423.2	1914.7	1157.4	1181.5	1132.1	1210.6	1192.9	1071.3	949.8	943.4
57.5°	12026.3	7945.0	1979.3	1087.7	1113.1	1067.5	1176.4	1152.4	1013.1	889.0	886.4
60°	12860.8	8451.4	2009.6	1020.7	1038.4	1008.0	1124.5	1082.7	947.2	826.9	823.1
62.5°	13642.1	8873.1	1960.3	953.6	964.9	952.3	1056.2	1000.4	881.4	757.3	756.0
65°	14426.0	9123.8	1808.3	887.6	890.2	883.9	959.9	911.7	804.1	696.5	688.9
67.5°	15136.4	9264.5	1566.4	816.8	810.5	807.9	869.9	815.5	729.4	635.7	628.1
70°	15287.1	8907.4	1196.7	733.2	733.2	726.8	771.2	715.4	647.1	571.1	568.6
72.5°	13962.6	7492.9	849.7	638.3	648.3	635.7	672.4	625.6	563.5	512.9	497.6
75°	11258.9	5494.6	618.0	540.7	558.4	536.9	571.1	538.2	485.0	483.7	435.6
77.5°	7736.0	3397.6	448.2	445.8	458.4	430.5	469.8	452.1	404.0	382.4	358.3
80°	3301.3	1354.9	326.7	344.4	344.4	319.1	364.7	369.7	328.0	317.9	317.9
82.5°	657.2	385.0	229.2	236.8	222.8	215.2	258.3	286.2	395.1	439.4	440.6
85°	197.5	141.9	138.1	129.1	114.0	115.2	152.0	287.4	354.5	202.6	174.8
87.5°	54.4	35.5	36.7	29.1	24.1	31.7	52.0	217.8	119.0	50.6	43.0
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)