

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: P970931

Luminaire Tested: **NAV-SB6C-740-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970931
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-740-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49282 lumens
Efficiency: N/A
Efficacy: 163.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

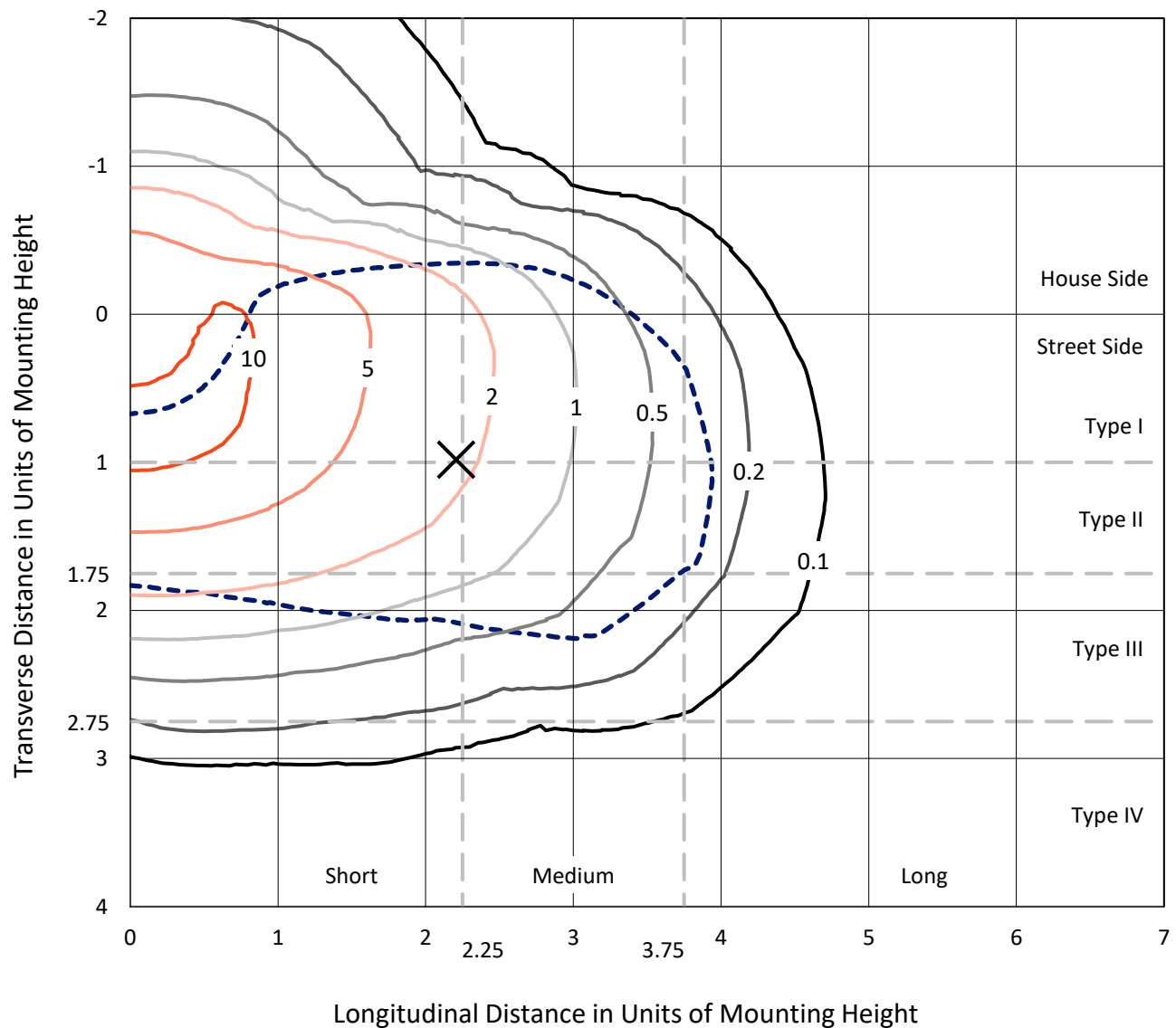
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

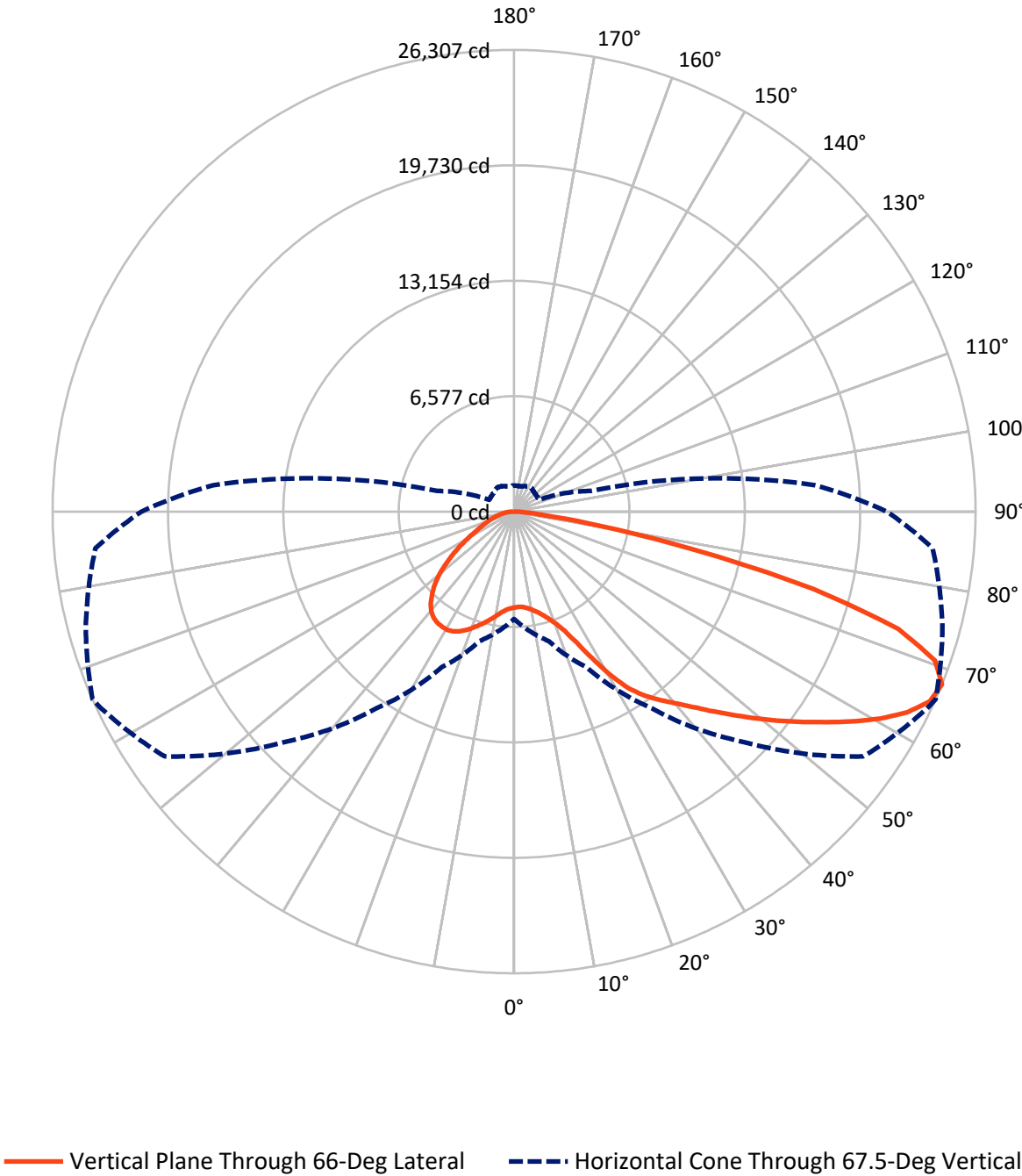
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12253.8	0.0	12253.8
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	37028.2	0.0	37028.2
	% Fixture	75.1	0.0	75.1
Total	Lumens	49282.0	0.0	49282.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	541.9	1.1
10°-20°	1790.5	3.6
20°-30°	3451.1	7.0
30°-40°	6051.0	12.3
40°-50°	8995.8	18.3
50°-60°	11403.1	23.1
60°-70°	11157.6	22.6
70°-80°	5322.3	10.8
80°-90°	568.8	1.2
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°	49282.0	100.0
0°-180°	49282.0	100.0

Coefficient of Utilization



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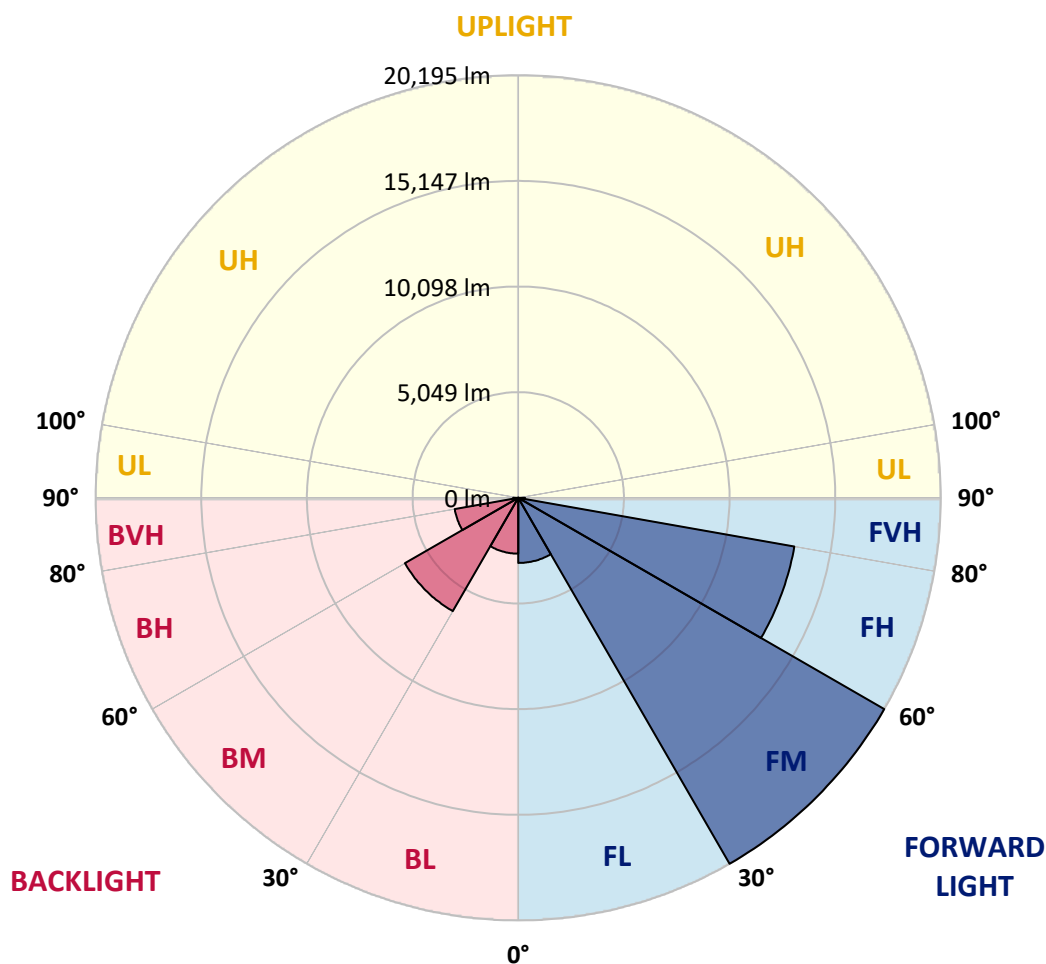
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3114.1	6.3			
FM	(30°-60°)	20195.3	41.0			
FH	(60°-80°)	13396.2	27.2			G5
FVH	(80°-90°)	322.5	0.7			G3/500
BL	(0°-30°)	2669.3	5.4	B4/5000		
BM	(30°-60°)	6254.5	12.7	B4/8500		
BH	(60°-80°)	3083.7	6.3	B4/5000		G4/5000
BVH	(80°-90°)	246.3	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5466.0	5466.0	5466.0	5466.0	5466.0	5466.0	5466.0	5466.0	5466.0	5466.0	5466.0
2.5°	5409.0	5440.1	5432.4	5419.4	5416.8	5422.0	5429.7	5437.5	5435.0	5447.9	5468.6
5°	5393.5	5424.6	5422.0	5422.0	5432.4	5453.1	5466.0	5478.9	5466.0	5481.6	5510.1
7.5°	5403.9	5427.2	5437.5	5447.9	5473.8	5512.7	5543.7	5572.2	5556.6	5574.8	5611.1
10°	5535.9	5554.1	5564.4	5564.4	5582.6	5626.5	5657.6	5709.5	5696.4	5724.9	5771.6
12.5°	5776.7	5794.8	5794.8	5784.5	5797.5	5825.9	5836.2	5893.2	5870.0	5916.6	5963.1
15°	6071.9	6108.2	6079.7	6061.5	6066.8	6095.3	6092.6	6136.7	6113.3	6152.2	6193.7
17.5°	6398.2	6444.8	6398.2	6395.6	6385.2	6416.3	6418.9	6457.7	6416.3	6444.8	6473.3
20°	6784.0	6848.7	6809.9	6822.8	6799.5	6812.5	6825.4	6882.4	6817.7	6838.4	6830.6
22.5°	7327.7	7405.4	7364.0	7413.2	7397.6	7387.3	7384.7	7485.7	7384.7	7392.5	7317.4
25°	8120.0	8213.3	8140.8	8208.1	8208.1	8241.7	8280.6	8410.0	8241.7	8192.5	7998.4
27.5°	9290.4	9383.7	9241.2	9282.7	9269.7	9352.6	9311.1	9632.2	9451.0	9370.7	8979.7
30°	10699.1	10864.7	10595.4	10585.1	10572.2	10704.2	10763.7	10976.1	10792.2	10712.0	10240.7
32.5°	12221.5	12395.0	12073.9	11980.7	11931.5	12011.8	11962.6	12133.4	12006.6	11882.3	11299.7
35°	13832.1	14002.9	13697.4	13516.2	13319.4	13151.1	12975.0	13019.0	12899.9	12710.9	12107.6
37.5°	15354.6	15667.8	15344.2	15150.0	14787.6	14458.6	13966.8	13762.2	13650.8	13477.3	12868.9
40°	16905.5	17084.3	16838.3	16672.5	16278.9	15763.7	14976.6	14544.1	14394.0	14225.7	13710.4
42.5°	18047.5	18218.4	18086.3	17972.4	17664.2	17066.1	16048.5	15507.3	15289.8	15100.8	14663.2
45°	18953.7	19080.6	18997.8	19039.2	18907.1	18327.1	17159.3	16540.5	16315.2	16084.8	15740.4
47.5°	19318.8	19453.5	19585.5	19831.5	20056.8	19629.6	18353.0	17659.1	17420.9	17185.3	16846.0
50°	19277.4	19414.6	19797.9	20320.8	21020.0	20877.6	19611.4	18850.2	18630.1	18360.7	18047.5
52.5°	18946.0	19101.3	19593.3	20463.3	21576.7	21812.3	20893.1	20080.1	19872.9	19551.9	19238.5
55°	18076.0	18169.1	18907.1	20139.6	21708.8	22464.8	22148.9	21390.2	21183.2	20735.1	20393.4
57.5°	16462.8	16597.4	17672.0	19267.0	21377.3	22907.6	23251.9	22767.8	22568.3	21923.6	21566.3
60°	14357.7	14572.6	15802.5	17801.5	20533.2	22905.0	24254.1	24121.9	23956.3	23094.1	22721.2
62.5°	11975.6	12224.2	13407.4	15730.1	19057.3	22255.1	24880.6	25256.1	25170.6	24173.8	23697.3
65°	9197.2	9368.1	10546.2	13050.1	16760.6	20859.5	24953.1	26030.3	26045.9	24994.5	24207.4
67.5°	6123.8	6615.7	7638.4	9792.7	13684.5	18578.2	24316.2	26157.2	26307.3	25276.8	23951.1
70°	2988.1	3635.4	4637.4	6364.5	9792.7	15080.1	22651.3	25116.3	25450.3	24453.4	22423.4
72.5°	1240.2	1450.0	1996.4	3140.8	5621.4	10176.0	19305.9	22294.0	22912.7	21667.3	18852.7
75°	836.3	906.3	1141.8	1610.6	2560.9	5018.1	13922.7	16623.3	17620.3	16364.4	13376.4
77.5°	644.7	688.8	831.2	1126.4	1522.5	1898.0	7452.1	10018.0	10533.3	9751.3	6960.1
80°	507.5	541.2	621.5	820.8	1079.7	1015.1	2540.2	4539.0	4836.9	4057.5	2237.2
82.5°	440.1	453.2	445.4	556.7	717.2	593.0	833.7	1675.3	1848.8	1341.2	730.2
85°	318.5	354.8	370.2	344.4	380.6	300.3	341.8	593.0	652.5	582.6	411.7
87.5°	129.5	191.6	235.6	222.6	139.8	85.5	106.2	173.5	199.4	217.5	134.7
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°	5466.0	5466.0	5466.0	5466.0	5466.0	5466.0	5466.0	5466.0	5466.0	5466.0	5466.0
2.5°	5471.2	5489.3	5502.3	5517.8	5528.1	5543.7	5574.8	5592.9	5595.5	5608.4	5605.8
5°	5520.4	5546.3	5574.8	5616.2	5662.8	5701.7	5761.2	5802.6	5818.2	5831.1	5828.6
7.5°	5626.5	5662.8	5714.6	5787.2	5854.4	5906.3	5978.7	6027.9	6077.1	6095.3	6097.8
10°	5784.5	5836.2	5911.4	6009.8	6082.2	6149.6	6224.7	6266.1	6315.3	6336.0	6346.4
12.5°	5981.3	6035.7	6134.1	6271.3	6338.6	6385.2	6411.2	6400.7	6411.2	6429.2	6434.4
15°	6206.6	6266.1	6377.4	6525.0	6571.7	6530.3	6473.3	6421.5	6413.7	6418.9	6437.0
17.5°	6473.3	6517.3	6646.7	6771.0	6737.3	6566.5	6442.2	6359.3	6317.9	6305.0	6323.1
20°	6846.1	6846.1	6952.3	7030.0	6804.7	6514.7	6320.5	6185.9	6100.4	6064.1	6056.4
22.5°	7299.2	7257.8	7325.2	7270.7	6791.8	6369.7	6100.4	5867.4	5738.0	5686.1	5678.4
25°	7874.0	7824.8	7806.7	7470.1	6698.6	6139.2	5701.7	5419.4	5305.5	5277.0	5282.2
27.5°	8741.5	8617.2	8381.6	7578.8	6527.6	5776.7	5235.6	4974.0	4909.3	4911.9	4919.7
30°	9896.4	9647.7	9070.3	7597.0	6248.0	5264.1	4759.2	4572.7	4541.7	4554.6	4598.6
32.5°	10965.8	10730.1	9774.6	7514.2	5818.2	4761.7	4332.0	4207.6	4161.0	4176.6	4197.3
35°	11804.6	11739.9	10427.1	7397.6	5289.9	4290.4	3948.7	3842.5	3751.9	3731.2	3746.7
37.5°	12596.9	12571.1	10916.6	7234.6	4766.9	3956.5	3640.6	3500.8	3368.7	3296.2	3298.8
40°	13467.0	13441.1	11237.6	6983.3	4303.5	3666.4	3363.5	3179.7	3016.6	2884.5	2897.5
42.5°	14445.7	14293.0	11390.3	6623.4	3909.9	3420.4	3138.2	2889.7	2674.7	2553.1	2560.9
45°	15515.1	15170.7	11387.7	6165.2	3578.4	3195.2	2897.5	2545.3	2345.9	2231.9	2226.8
47.5°	16649.3	16009.7	11247.9	5657.6	3257.3	2946.7	2524.6	2255.3	2123.2	2053.3	2037.8
50°	17819.6	16794.2	11009.7	5075.1	2928.5	2664.4	2291.5	2107.7	2006.7	1942.0	1918.7
52.5°	18920.1	17506.3	10722.3	4414.8	2594.5	2389.9	2188.0	2045.6	1939.4	1866.9	1835.8
55°	19942.8	18119.9	10315.8	3739.0	2322.6	2206.1	2138.8	2019.7	1898.0	1812.5	1778.9
57.5°	20851.7	18518.7	9614.1	3104.6	2128.4	2079.2	2087.0	1975.7	1835.8	1763.3	1716.7
60°	21607.7	18811.3	8575.8	2516.8	1970.5	1954.9	2006.7	1892.8	1729.7	1646.8	1610.6
62.5°	22060.9	18806.1	7301.8	2061.1	1835.8	1841.0	1900.6	1789.2	1623.5	1545.8	1522.5
65°	22022.0	18345.2	5903.6	1763.3	1706.3	1711.5	1789.2	1675.3	1535.4	1488.8	1486.2
67.5°	21242.7	17221.4	4528.7	1569.1	1563.9	1587.2	1677.8	1597.6	1481.1	1475.9	1483.7
70°	19132.3	14888.5	3262.6	1413.8	1416.3	1450.0	1569.1	1548.4	1452.6	1463.0	1460.3
72.5°	15341.7	11351.6	2190.5	1250.6	1253.3	1307.6	1465.5	1509.5	1424.1	1561.4	1582.1
75°	10217.4	7079.2	1408.6	1077.2	1079.7	1149.6	1374.9	1434.5	1346.4	1556.2	1569.1
77.5°	4909.3	3182.2	1020.2	906.3	906.3	971.0	1188.5	1284.3	1147.1	1209.2	1108.2
80°	1696.0	1196.3	802.7	730.2	714.6	758.7	1002.0	1113.4	989.1	911.4	854.4
82.5°	668.0	621.5	644.7	567.0	515.3	543.8	779.4	919.2	727.5	657.6	655.1
85°	383.2	404.0	455.7	375.5	297.8	334.0	572.3	660.3	548.9	484.2	494.6
87.5°	103.5	142.4	209.7	194.2	134.7	142.4	271.8	365.1	315.9	243.4	251.1
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)