

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: P885456

Luminaire Tested: **NAV-SB6D-730-U-T2-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885456  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6D-730-U-T2-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

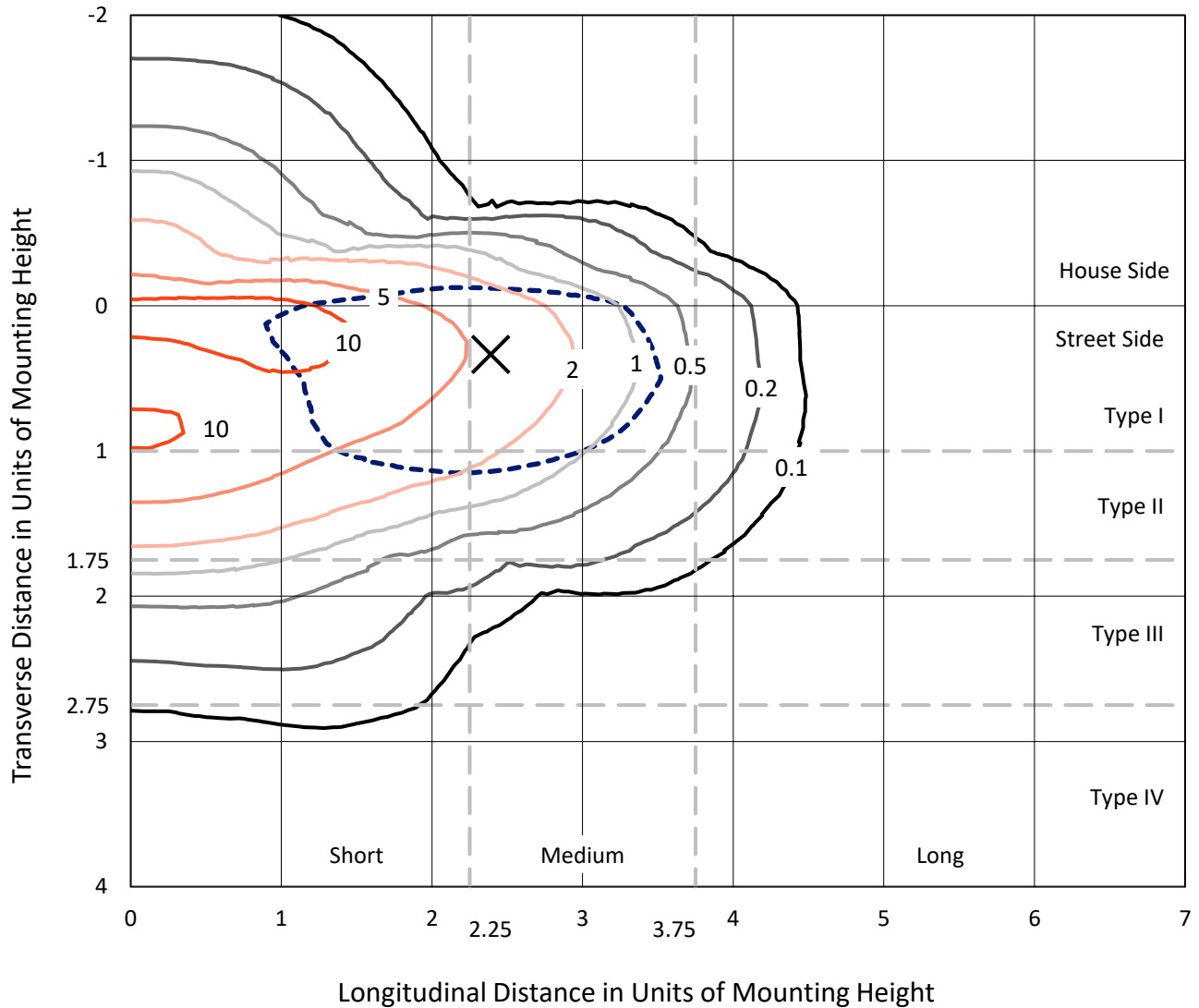
Lumens per Lamp: N/A  
Luminaire Lumens: 44398 lumens  
Efficiency: N/A  
Efficacy: 100.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 440.1  
Input Voltage (V): 120.0  
Input Current (Ain): 3.68  
Voltage Rise (V): NR  
Power Factor: 0.998  
Total Harmonic Distortion (THDi): 2.542  
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

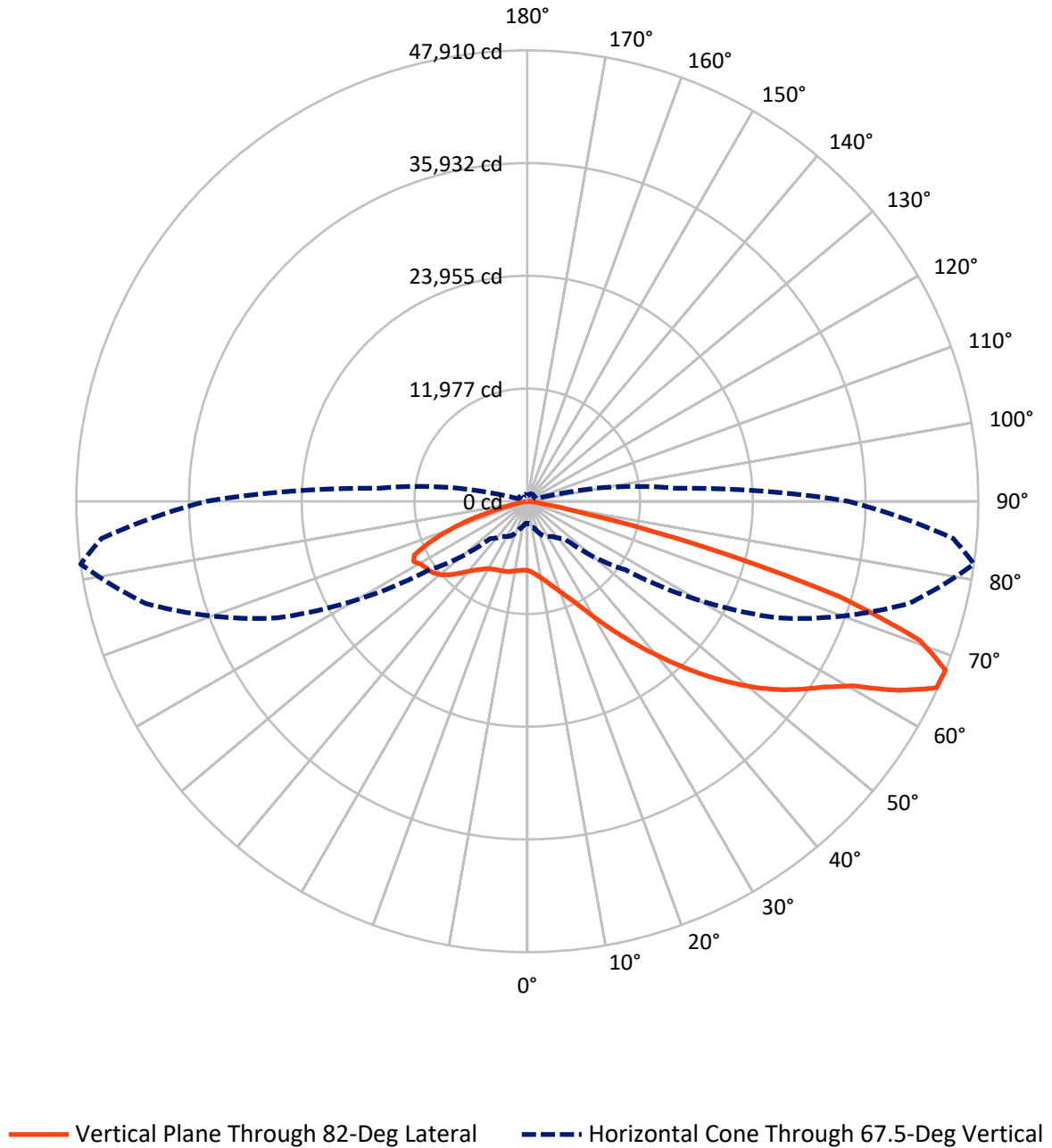
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc  
 Type II - Medium - N/A

REPORT NUMBER: P885456  
CATALOG NUMBER: NAV-SB6D-730-U-T2-HSS

### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8042.3	0.0	8042.3
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	36355.7	0.0	36355.7
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	44398.0	0.0	44398.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	655.3	1.5
10°-20°	1702.9	3.8
20°-30°	2727.4	6.1
30°-40°	4822.9	10.9
40°-50°	8450.2	19.0
50°-60°	11270.3	25.4
60°-70°	10492.0	23.6
70°-80°	4026.8	9.1
80°-90°	250.1	0.6
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°	44398.0	100.0
0°-180°	44398.0	100.0

**Coefficient of Utilization**



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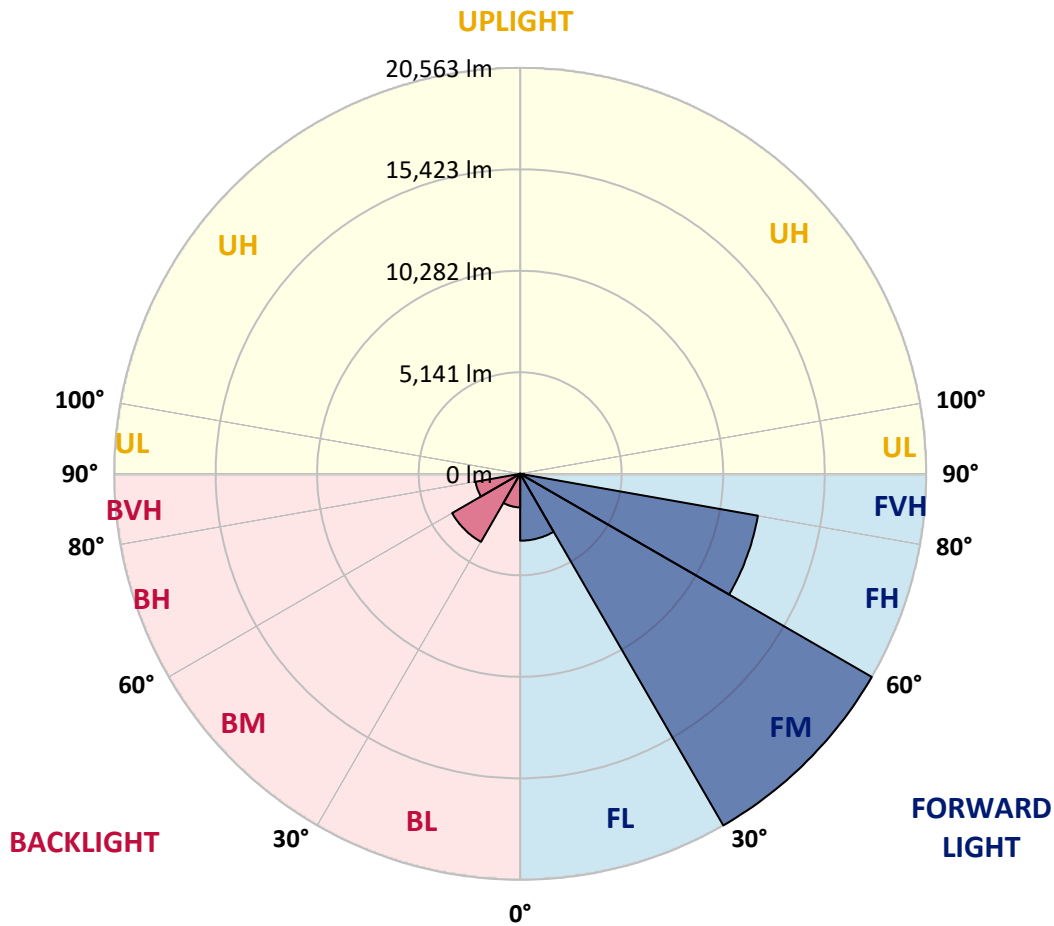
CATALOG NUMBER: NAV-SB6D-730-U-T2-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3387.1	7.6			
FM (30°-60°)	20563.3	46.3			
FH (60°-80°)	12223.4	27.5			G5
FVH (80°-90°)	181.8	0.4			G2/225
BL (0°-30°)	1698.5	3.8	B3/2500		
BM (30°-60°)	3980.1	9.0	B3/5000		
BH (60°-80°)	2295.4	5.2	B3/2500		G3/2500
BVH (80°-90°)	68.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type II Medium



REPORT NUMBER: P885456  
 CATALOG NUMBER: NAV-SB6D-730-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	7355.2	7355.2	7355.2	7355.2	7355.2	7355.2	7355.2	7355.2	7355.2	7355.2	7355.2
2.5°	7774.0	7818.7	7793.2	7780.4	7758.0	7726.0	7700.5	7620.6	7537.4	7483.1	7463.9
5°	7930.6	7975.4	7972.2	7985.0	8000.9	8010.5	8004.1	7914.6	7796.4	7703.7	7649.3
7.5°	7796.4	7847.5	7889.1	7953.0	8064.9	8183.2	8240.7	8221.5	8100.0	7972.2	7905.1
10°	7416.0	7470.3	7569.4	7719.7	7956.2	8211.9	8426.1	8525.2	8448.5	8307.8	8215.1
12.5°	6719.1	6773.5	6968.5	7294.5	7690.9	8135.2	8544.4	8809.7	8828.9	8688.2	8579.5
15°	5936.0	5990.3	6198.1	6607.3	7211.4	7924.2	8608.3	9110.1	9279.6	9158.1	9027.0
17.5°	5450.1	5498.1	5654.7	5983.9	6613.6	7502.3	8585.9	9429.8	9816.6	9720.7	9564.1
20°	5303.1	5344.6	5418.1	5648.3	6172.5	7064.4	8438.9	9730.3	10395.2	10340.8	10165.0
22.5°	5459.7	5498.1	5520.4	5622.7	5952.0	6776.7	8253.5	10037.1	11066.4	11072.8	10858.7
25°	5820.9	5859.3	5833.7	5897.6	6041.5	6687.2	8183.2	10398.4	11910.3	11980.6	11737.7
27.5°	6415.5	6418.7	6357.9	6354.7	6377.1	6821.4	8256.7	10785.1	12974.8	13105.8	12805.4
30°	7607.8	7559.8	7326.5	7074.0	6958.9	7224.2	8461.3	11242.2	14231.0	14464.4	14087.2
32.5°	9445.8	9375.5	8947.1	8343.0	7735.6	7873.1	8828.9	11763.3	15599.1	16021.1	15560.8
35°	11440.4	11421.2	10973.7	10075.5	9014.3	8796.9	9426.6	12447.3	17091.9	17763.2	17216.6
37.5°	13294.4	13284.8	13029.1	11971.1	10679.7	10085.1	10385.6	13342.4	18690.2	19661.9	19016.2
40°	14988.6	15017.4	14761.6	13815.5	12514.5	11737.7	11689.8	14448.4	20467.5	21730.1	20962.9
42.5°	16452.6	16484.6	16225.7	15525.6	14326.9	13566.1	13291.2	15803.7	22203.2	23951.7	23043.9
45°	17446.7	17644.9	17606.6	17047.2	16187.3	15397.7	15215.5	17504.3	24181.8	26307.6	25243.1
47.5°	17728.0	17910.2	18197.9	18274.6	17750.4	16973.6	17191.0	19553.3	26182.9	28666.6	27455.1
50°	17034.4	17203.8	17801.5	18597.5	18961.9	18722.2	19112.1	21749.3	28231.9	31019.3	29625.6
52.5°	15666.3	15838.9	16593.3	17852.7	19339.1	20093.5	21039.6	23913.3	30216.9	33247.2	31680.9
55°	13687.6	13869.8	14838.4	16264.0	18619.9	20659.3	22647.5	26074.2	32035.8	35251.5	33534.9
57.5°	10996.1	11130.4	12137.3	14131.9	16810.6	20096.7	23833.4	28433.3	33749.1	37220.6	35372.9
60°	7166.7	7284.9	8454.9	10679.7	13812.3	18217.1	24070.0	31064.0	36025.0	39781.0	37850.3
62.5°	4766.0	4846.0	5539.6	7173.0	9727.1	14608.2	22685.9	33164.1	39362.2	44237.0	42098.5
65°	3270.1	3350.0	4043.6	5181.6	6284.4	9663.2	18706.2	32886.0	42386.2	47775.5	45247.1
67.5°	2333.5	2400.6	2988.8	4062.8	4548.7	5613.1	12680.7	29331.5	41951.4	47909.8	45416.5
70°	1671.8	1710.2	2196.0	3164.6	3615.3	3372.4	7051.6	22433.3	36731.5	44240.2	41957.8
72.5°	1169.9	1182.7	1524.8	2410.2	2912.1	2461.3	3356.4	14956.6	27781.2	34724.0	32528.0
75°	792.7	808.7	1026.1	1767.7	2336.7	1879.6	1777.3	8020.1	16308.8	19220.8	17229.4
77.5°	485.9	492.3	661.7	1208.3	1748.5	1432.1	1144.4	3397.9	6310.0	6194.9	5280.7
80°	274.9	274.9	421.9	751.2	1192.3	923.8	802.3	1444.8	1997.8	1754.9	1547.1
82.5°	153.4	156.6	306.9	466.7	789.5	546.6	441.1	668.1	863.1	764.0	664.9
85°	63.9	70.3	188.6	220.6	377.2	271.7	179.0	281.3	319.7	284.5	207.8
87.5°	6.4	9.6	57.5	41.6	44.8	54.3	25.6	54.3	44.8	44.8	32.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P885456

CATALOG NUMBER: NAV-SB6D-730-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7355.2	7355.2	7355.2	7355.2	7355.2	7355.2	7355.2	7355.2	7355.2	7355.2	7355.2
2.5°	7403.2	7355.2	7233.8	7093.1	6907.7	6818.2	6696.8	6613.6	6543.3	6549.7	6485.8
5°	7547.0	7425.6	7153.9	6815.0	6393.1	6092.6	5773.0	5552.4	5373.4	5335.0	5248.7
7.5°	7745.2	7553.4	7077.1	6466.6	5753.8	5213.6	4730.9	4420.8	4200.3	4129.9	4059.6
10°	8000.9	7722.8	6978.1	6028.7	5002.6	4315.3	3797.5	3554.6	3404.3	3353.2	3314.8
12.5°	8298.2	7917.8	6847.0	5494.9	4229.0	3567.3	3238.1	3116.6	3068.7	3052.7	3043.1
15°	8672.2	8160.8	6648.8	4861.9	3573.7	3110.2	2969.6	2953.6	2960.0	2953.6	2950.4
17.5°	9116.5	8426.1	6326.0	4209.8	3132.6	2876.9	2825.7	2838.5	2854.5	2851.3	2844.9
20°	9602.4	8688.2	5913.6	3631.3	2832.1	2710.7	2681.9	2694.7	2707.5	2701.1	2697.9
22.5°	10155.4	8969.5	5456.5	3180.6	2630.8	2557.2	2525.3	2528.5	2528.5	2515.7	2509.3
25°	10817.1	9279.6	4977.0	2860.9	2477.3	2419.8	2381.4	2368.6	2349.5	2311.1	2304.7
27.5°	11606.6	9608.8	4516.7	2637.1	2355.9	2301.5	2256.8	2224.8	2176.8	2112.9	2106.5
30°	12495.3	10008.4	4126.7	2496.5	2260.0	2205.6	2154.5	2106.5	2036.2	1956.3	1949.9
32.5°	13540.6	10436.7	3842.2	2403.8	2173.6	2116.1	2055.4	1997.8	1921.1	1841.2	1844.4
35°	14787.2	10954.6	3676.0	2339.9	2106.5	2029.8	1962.7	1898.7	1841.2	1770.9	1764.5
37.5°	16139.3	11504.4	3624.9	2307.9	2061.8	1943.5	1866.8	1822.0	1815.6	1774.1	1770.9
40°	17619.3	12156.5	3663.2	2288.7	2013.8	1860.4	1777.3	1767.7	1783.7	1710.2	1713.3
42.5°	19185.7	12930.0	3727.2	2266.3	1946.7	1777.3	1697.4	1697.4	1684.6	1582.3	1582.3
45°	20879.8	13821.9	3791.1	2212.0	1866.8	1694.2	1633.4	1611.1	1556.7	1457.6	1454.4
47.5°	22586.8	14729.7	3839.0	2112.9	1770.9	1623.8	1569.5	1518.4	1438.4	1348.9	1345.7
50°	24207.4	15544.8	3787.9	1965.9	1662.2	1556.7	1499.2	1428.9	1342.5	1281.8	1272.2
52.5°	25655.5	16251.2	3570.5	1793.3	1547.1	1486.4	1435.2	1361.7	1291.4	1227.5	1221.1
55°	26914.9	16823.4	3187.0	1630.2	1444.8	1425.7	1374.5	1281.8	1185.9	1131.6	1125.2
57.5°	28123.2	17258.1	2707.5	1496.0	1352.1	1358.5	1281.8	1198.7	1109.2	1051.7	1045.3
60°	29731.0	17839.9	2221.6	1371.3	1253.0	1272.2	1189.1	1128.4	1016.5	943.0	933.4
62.5°	32301.1	18744.5	1764.5	1217.9	1138.0	1144.4	1109.2	1035.7	901.4	815.1	808.7
65°	34340.5	18412.1	1390.5	1051.7	1006.9	1016.5	1016.5	936.6	792.7	693.6	684.1
67.5°	34110.3	15765.4	1109.2	888.6	882.2	888.6	911.0	843.9	703.2	623.3	610.5
70°	31422.0	12540.0	888.6	738.4	767.2	751.2	815.1	770.4	632.9	553.0	543.4
72.5°	25639.5	9033.4	677.7	610.5	588.2	613.7	735.2	693.6	527.4	437.9	428.3
75°	14982.2	4820.4	505.1	482.7	425.1	511.4	652.1	591.4	402.8	322.9	313.3
77.5°	4877.9	1681.4	370.8	354.8	316.5	412.4	556.2	498.7	329.2	255.7	246.1
80°	1307.4	508.3	252.5	233.3	204.6	306.9	441.1	396.4	236.5	166.2	163.0
82.5°	524.2	214.2	147.0	131.1	111.9	211.0	348.4	319.7	175.8	105.5	105.5
85°	169.4	70.3	54.3	41.6	51.1	131.1	207.8	217.4	124.7	54.3	41.6
87.5°	22.4	9.6	9.6	12.8	9.6	22.4	63.9	60.7	35.2	6.4	0.0
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)