

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: P885520

Luminaire Tested: **NAV-SB6D-830-U-T4FT-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885520  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6D-830-U-T4FT-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

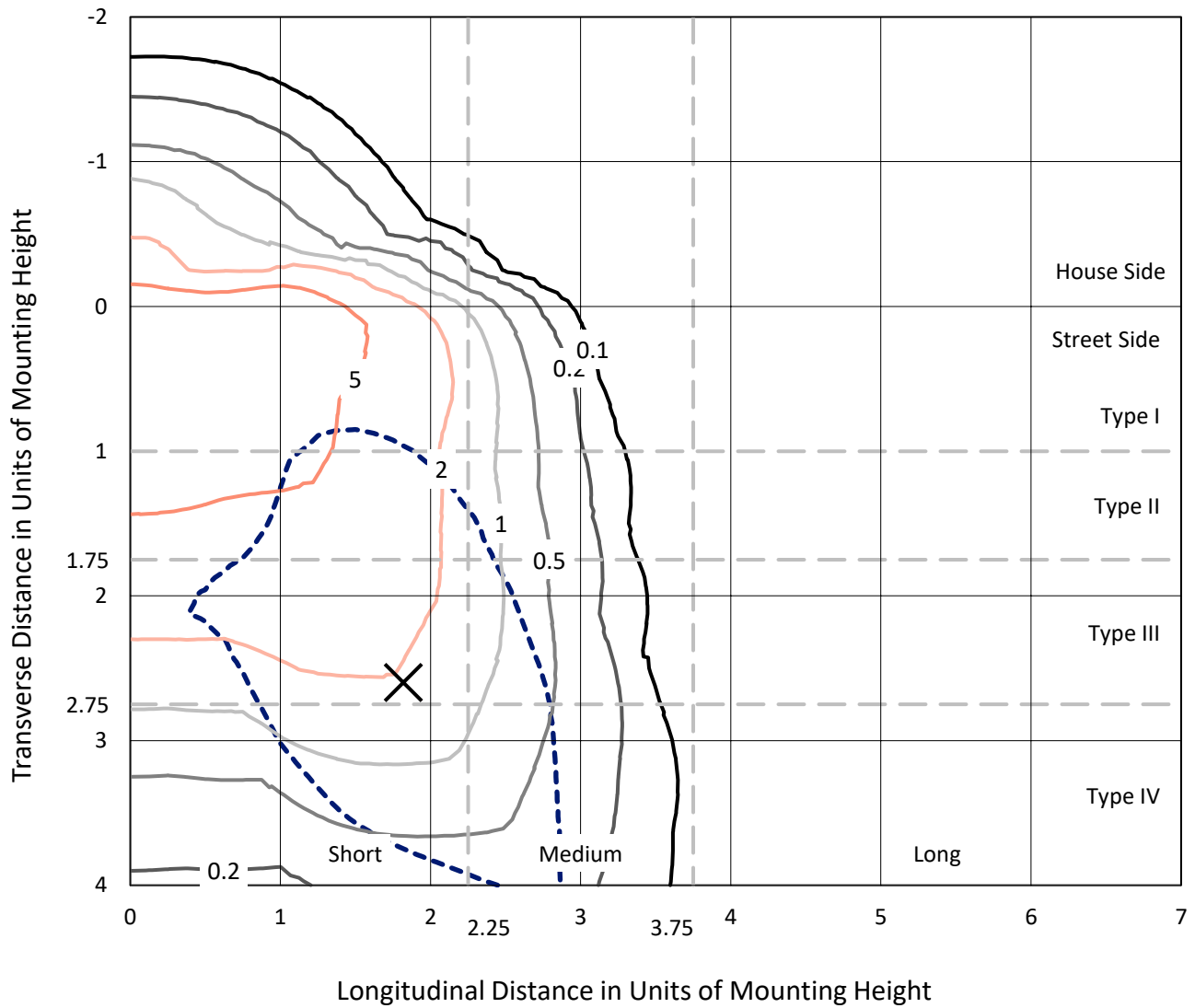
Lumens per Lamp: N/A  
Luminaire Lumens: 40920 lumens  
Efficiency: N/A  
Efficacy: 93.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 440.1  
Input Voltage (V): 120.0  
Input Current (Ain): 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

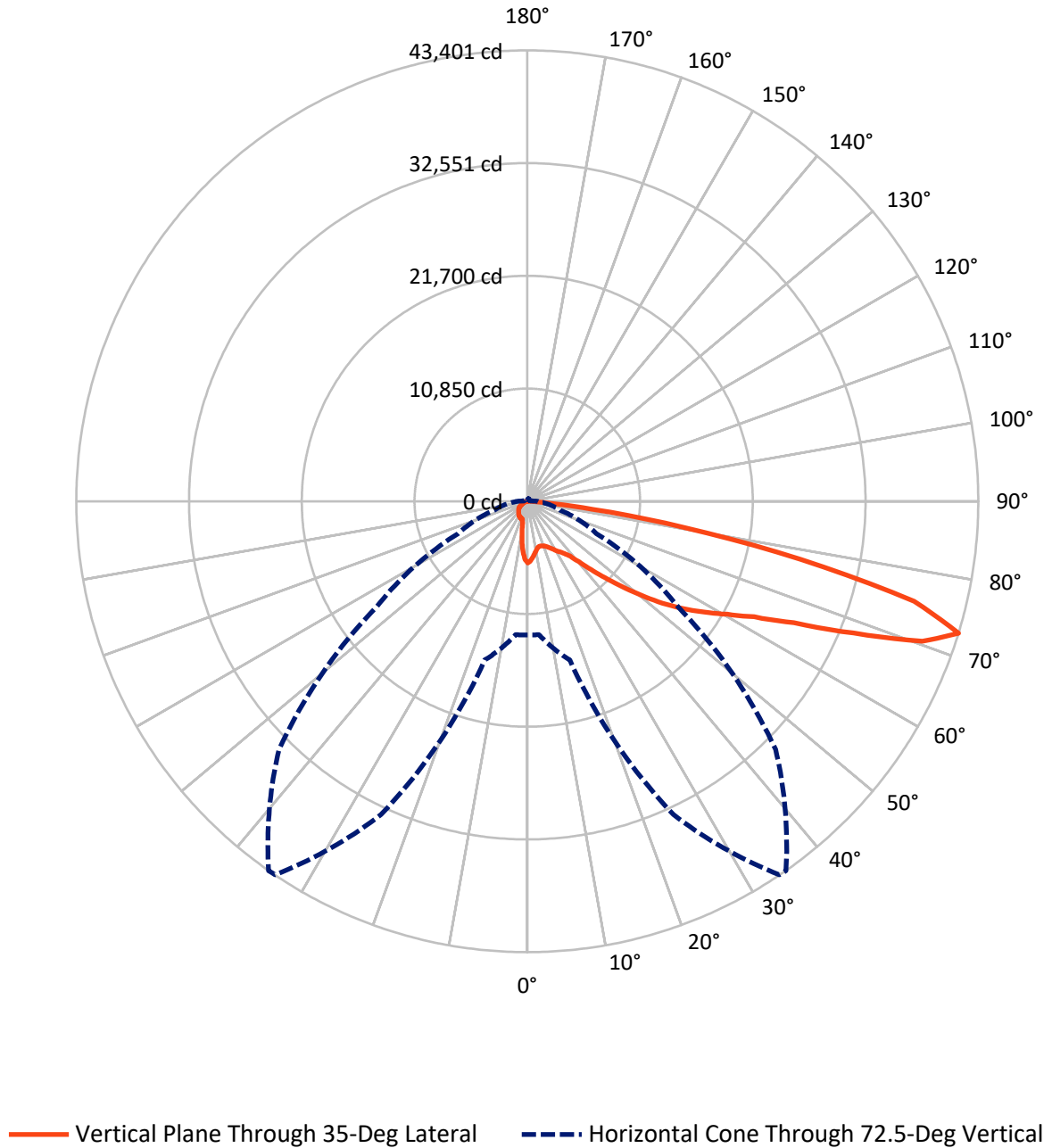
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4605.4	0.0	4605.4
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	36314.6	0.0	36314.6
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	40920.0	0.0	40920.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	487.3	1.2
10°-20°	1140.1	2.8
20°-30°	1852.0	4.5
30°-40°	3090.1	7.6
40°-50°	5846.6	14.3
50°-60°	9290.1	22.7
60°-70°	11492.5	28.1
70°-80°	7143.9	17.5
80°-90°	577.3	1.4
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°	40920.0	100.0
0°-180°	40920.0	100.0

**Coefficient of Utilization**



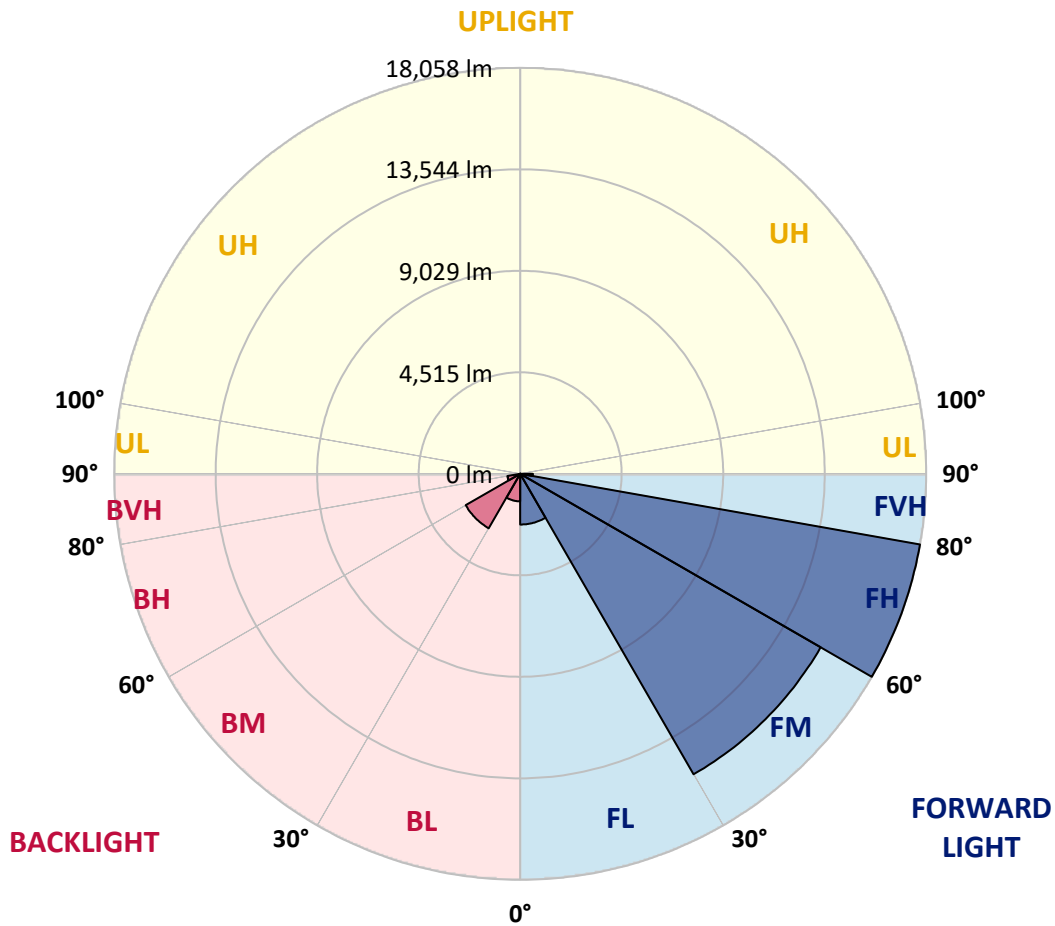
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2255.7	5.5			
FM (30°-60°)	15430.9	37.7			
FH (60°-80°)	18058.5	44.1			G5
FVH (80°-90°)	569.5	1.4			G4/750
BL (0°-30°)	1223.7	3.0	B3/2500		
BM (30°-60°)	2795.9	6.8	B3/5000		
BH (60°-80°)	577.9	1.4	B2/1000		G2/1000
BVH (80°-90°)	7.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	5930.7	5930.7	5930.7	5930.7	5930.7	5930.7	5930.7	5930.7	5930.7	5930.7	5930.7
2.5°	5666.8	5714.8	5723.8	5738.8	5738.8	5756.8	5786.8	5828.7	5897.7	5933.7	5957.7
5°	5223.1	5259.1	5304.0	5340.0	5409.0	5418.0	5534.9	5648.8	5807.7	5927.7	6011.6
7.5°	4776.3	4818.3	4878.3	4965.2	5055.2	5082.2	5259.1	5450.9	5702.8	5927.7	6068.6
10°	4461.5	4464.5	4518.5	4605.4	4749.3	4782.3	4998.2	5271.0	5585.9	5891.7	6122.6
12.5°	4284.6	4305.6	4329.6	4395.5	4533.5	4554.5	4785.3	5106.1	5468.9	5870.7	6185.5
15°	4284.6	4299.6	4314.6	4347.6	4458.5	4476.5	4680.4	5001.2	5409.0	5879.7	6287.5
17.5°	4329.6	4353.6	4341.6	4380.5	4497.5	4509.5	4689.4	4971.2	5406.0	5936.7	6443.4
20°	4437.5	4455.5	4431.5	4455.5	4572.4	4596.4	4782.3	5028.2	5456.9	6035.6	6638.3
22.5°	4608.4	4617.4	4560.4	4578.4	4698.4	4728.4	4944.2	5190.1	5579.9	6194.5	6899.1
25°	4824.3	4842.3	4755.3	4776.3	4890.3	4926.2	5175.1	5433.0	5774.8	6413.4	7232.0
27.5°	5073.2	5082.2	5007.2	5004.2	5151.1	5202.1	5453.9	5732.8	6035.6	6689.3	7651.7
30°	5358.0	5385.0	5313.0	5301.0	5486.9	5528.9	5777.8	6101.6	6419.4	7103.0	8248.4
32.5°	5582.9	5603.9	5561.9	5591.9	5780.8	5813.7	6170.5	6623.3	7022.1	7690.7	9060.9
35°	5906.7	5918.7	5822.7	5876.7	6092.6	6176.5	6707.2	7354.9	7780.6	8428.3	10122.3
37.5°	7079.0	7079.0	6671.3	6404.4	6611.3	6686.3	7441.8	8275.4	8716.1	9417.7	11459.6
40°	8701.1	8674.1	8077.5	7531.8	7504.8	7651.7	8488.2	9435.7	9924.4	10605.1	12964.7
42.5°	10431.2	10389.2	9576.6	9036.9	8947.0	8998.0	9696.6	10865.9	11363.6	12053.3	14583.8
45°	11966.3	11954.3	11210.7	10485.1	10323.2	10485.1	11204.7	12539.0	12895.8	13621.4	16199.9
47.5°	13252.6	13252.6	12709.9	12236.2	12152.2	12248.1	13246.6	14394.9	14362.0	15291.4	17774.0
50°	14733.8	14721.8	14206.0	14002.2	14089.1	14224.0	15597.3	16349.8	15879.1	16931.5	19180.3
52.5°	15771.2	15843.1	15666.2	15633.2	16077.0	16310.9	17983.9	18262.8	17237.4	18487.7	20232.7
55°	16592.7	16676.7	16880.6	17111.4	17965.9	18271.8	20295.6	20076.8	18373.7	19836.9	20838.3
57.5°	17756.1	17636.1	17951.0	18406.7	19788.9	20157.7	22535.4	21788.8	19288.2	20931.3	20904.3
60°	19168.3	19186.3	19240.2	19815.9	21608.9	22082.6	24742.1	23407.9	19875.9	21602.9	20172.7
62.5°	20865.3	20892.3	21003.2	21887.7	24052.5	24499.3	27092.8	24733.2	20145.7	21414.0	18283.8
65°	20748.4	20862.3	22100.6	25125.9	27767.5	28208.2	29836.3	25662.6	19738.0	19687.0	14886.7
67.5°	18901.4	19087.3	21159.2	28993.8	33368.3	33860.0	33152.4	25845.5	17977.9	15309.4	9711.6
70°	16478.8	16544.7	19036.3	32471.8	39853.7	40351.4	36120.8	23833.7	13642.4	8539.2	4350.6
72.5°	12868.8	12883.8	15807.2	33278.4	43373.7	43400.7	33791.1	17693.1	7336.9	3280.2	1511.2
75°	9192.9	9102.9	10587.1	26987.9	38159.6	38465.5	25332.8	8299.4	2803.4	1550.1	752.6
77.5°	4929.2	5028.2	5990.6	16005.0	26361.2	26883.0	13822.3	2392.7	1427.2	1055.4	497.7
80°	1523.1	1607.1	2455.6	7327.9	14931.6	15246.5	5124.1	1064.4	995.4	752.6	326.8
82.5°	479.7	497.7	1145.4	3079.3	6197.5	6341.5	1484.2	602.7	680.6	497.7	191.9
85°	137.9	140.9	509.7	1148.4	1532.1	1562.1	416.8	233.9	389.8	308.8	98.9
87.5°	15.0	48.0	191.9	191.9	134.9	131.9	45.0	51.0	110.9	39.0	18.0
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°	5930.7	5930.7	5930.7	5930.7	5930.7	5930.7	5930.7	5930.7	5930.7	5930.7	5930.7
2.5°	5942.7	5945.7	5906.7	5840.7	5768.8	5708.8	5633.8	5573.9	5531.9	5519.9	5540.9
5°	5984.6	5963.7	5852.7	5651.8	5412.0	5205.1	4974.2	4791.3	4671.4	4620.4	4638.4
7.5°	6047.6	5987.6	5744.8	5349.0	4890.3	4482.5	4068.7	3747.9	3544.0	3442.1	3457.1
10°	6101.6	5981.7	5564.9	4911.3	4209.6	3592.0	3034.3	2647.5	2431.6	2329.7	2332.7
12.5°	6152.6	5978.7	5331.0	4392.5	3442.1	2686.5	2167.8	1975.9	1915.9	1894.9	1888.9
15°	6248.5	5987.6	5037.2	3798.9	2677.5	2029.9	1841.0	1838.0	1850.0	1844.0	1841.0
17.5°	6380.4	5996.6	4704.4	3169.2	2065.8	1790.0	1781.0	1808.0	1826.0	1817.0	1814.0
20°	6551.3	6032.6	4350.6	2545.6	1775.0	1730.0	1751.0	1775.0	1790.0	1775.0	1772.0
22.5°	6791.2	6095.6	3963.8	2044.9	1682.1	1694.1	1712.0	1739.0	1754.0	1733.0	1730.0
25°	7085.0	6194.5	3583.0	1778.0	1637.1	1652.1	1679.1	1709.0	1727.0	1706.0	1703.0
27.5°	7465.8	6353.4	3232.2	1718.0	1592.1	1601.1	1640.1	1685.1	1709.0	1682.1	1682.1
30°	8017.5	6614.3	2929.4	1745.0	1565.1	1544.1	1598.1	1661.1	1688.1	1664.1	1661.1
32.5°	8749.1	6983.1	2743.5	1787.0	1553.1	1478.2	1529.1	1610.1	1655.1	1640.1	1640.1
35°	9708.6	7543.8	2671.5	1835.0	1544.1	1409.2	1445.2	1532.1	1610.1	1625.1	1625.1
37.5°	10871.9	8323.3	2692.5	1856.0	1517.2	1352.2	1370.2	1445.2	1547.1	1595.1	1607.1
40°	12194.2	9231.8	2812.4	1835.0	1487.2	1304.3	1307.3	1364.2	1454.2	1526.1	1550.1
42.5°	13558.4	10293.2	3034.3	1757.0	1460.2	1262.3	1253.3	1292.3	1352.2	1403.2	1424.2
45°	14856.7	11384.6	3253.2	1649.1	1427.2	1220.3	1199.3	1214.3	1226.3	1247.3	1259.3
47.5°	15990.0	12152.2	3190.2	1550.1	1382.2	1172.3	1136.4	1130.4	1094.4	1091.4	1088.4
50°	16772.6	12320.1	2833.4	1451.2	1316.3	1118.4	1061.4	1025.4	962.5	932.5	935.5
52.5°	17021.5	11657.5	2314.7	1352.2	1208.3	1046.4	965.5	908.5	830.5	803.6	800.6
55°	16691.7	10359.2	1850.0	1232.3	1058.4	950.5	860.5	785.6	722.6	689.6	689.6
57.5°	15885.1	8707.1	1463.2	1091.4	899.5	842.5	752.6	677.6	623.7	590.7	584.7
60°	14547.9	6914.1	1157.4	923.5	767.6	725.6	632.6	584.7	536.7	497.7	488.7
62.5°	12518.0	4935.2	908.5	731.6	641.6	593.7	539.7	503.7	446.7	392.8	383.8
65°	9768.5	3019.3	701.6	536.7	515.7	491.7	458.7	425.8	356.8	302.8	293.8
67.5°	6161.6	1430.2	500.7	404.8	407.8	395.8	380.8	353.8	302.8	254.9	248.9
70°	2713.5	692.6	329.8	308.8	302.8	302.8	314.8	305.8	257.9	212.9	203.9
72.5°	923.5	371.8	245.9	233.9	218.9	215.9	263.9	254.9	206.9	164.9	155.9
75°	482.7	248.9	179.9	167.9	131.9	158.9	209.9	197.9	146.9	107.9	98.9
77.5°	314.8	176.9	122.9	107.9	75.0	104.9	155.9	137.9	87.0	54.0	48.0
80°	197.9	116.9	72.0	51.0	36.0	57.0	84.0	60.0	33.0	12.0	9.0
82.5°	104.9	60.0	27.0	18.0	15.0	18.0	21.0	15.0	6.0	0.0	0.0
85°	42.0	21.0	9.0	6.0	3.0	0.0	6.0	3.0	0.0	0.0	0.0
87.5°	15.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)