

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: P885470

Luminaire Tested: **NAV-SB6D-735-U-T4FT-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885470  
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-735-U-T4FT-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

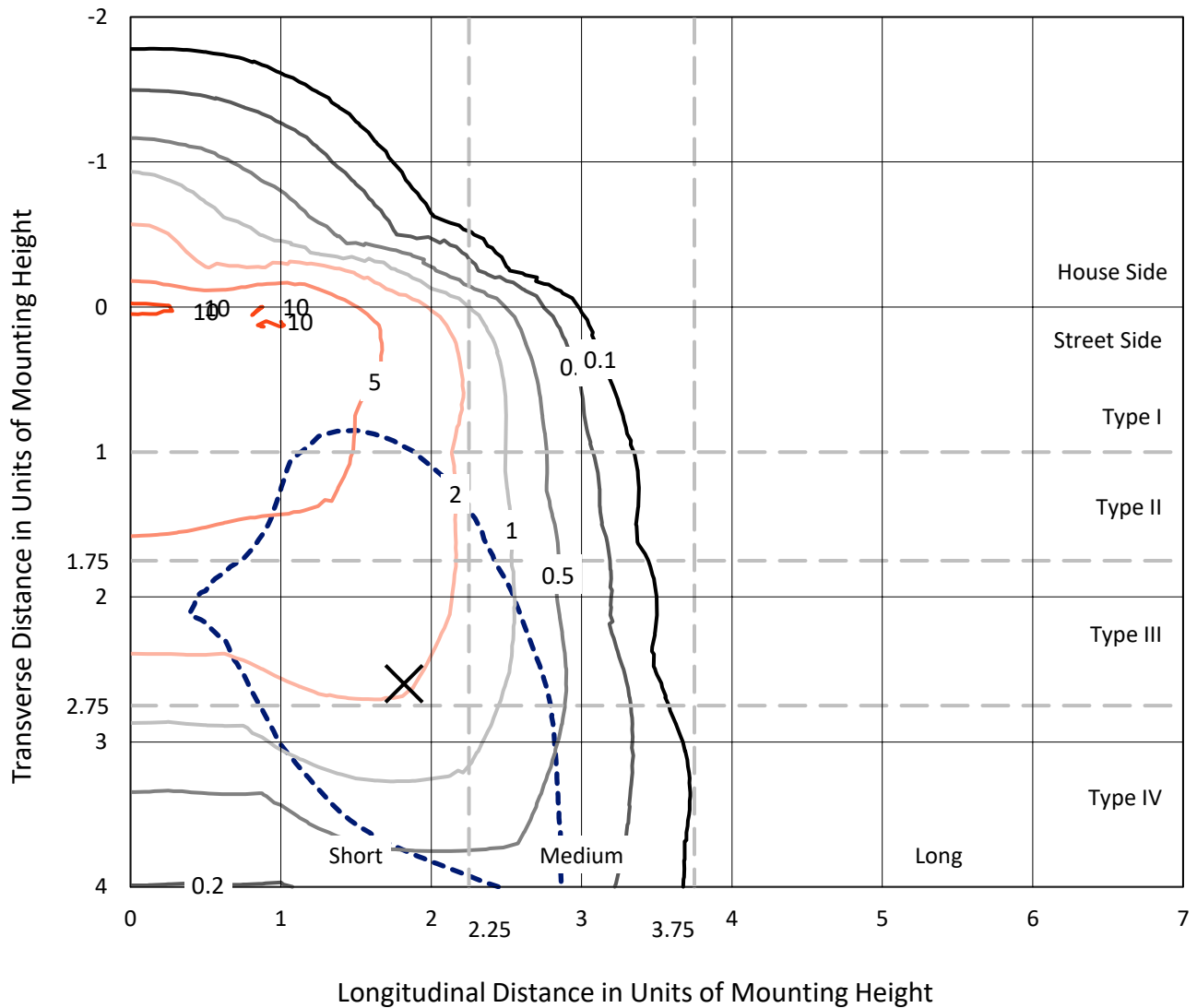
Lumens per Lamp: N/A  
Luminaire Lumens: 46765 lumens  
Efficiency: N/A  
Efficacy: 106.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 440.1  
Input Voltage (V): 120.0  
Input Current (Ain): 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



REPORT NUMBER: P885470  
 CATALOG NUMBER: NAV-SB6D-735-U-T4FT-HSS

### Iso-Footcandle Lines of Horizontal Illumination

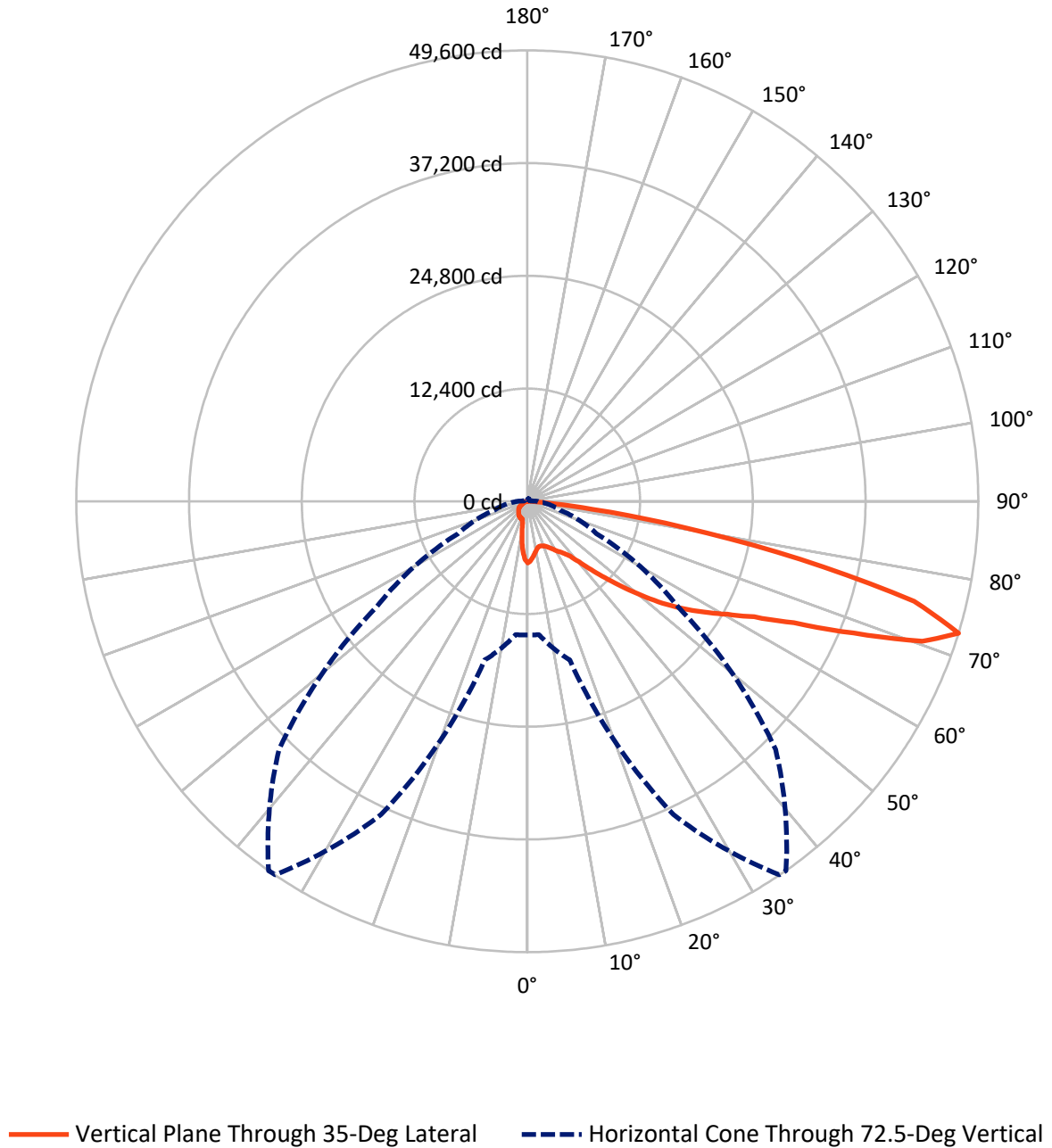
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc  
 Type IV - Short - N/A

REPORT NUMBER: P885470  
CATALOG NUMBER: NAV-SB6D-735-U-T4FT-HSS

### Luminous Intensity Polar Plot



REPORT NUMBER: P885470  
 CATALOG NUMBER: NAV-SB6D-735-U-T4FT-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5263.2	0.0	5263.2
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	41501.8	0.0	41501.8
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	46765.0	0.0	46765.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	557.0	1.2
10°-20°	1302.9	2.8
20°-30°	2116.6	4.5
30°-40°	3531.5	7.6
40°-50°	6681.7	14.3
50°-60°	10617.1	22.7
60°-70°	13134.2	28.1
70°-80°	8164.3	17.5
80°-90°	659.8	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°	46765.0	100.0
0°-180°	46765.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P885470

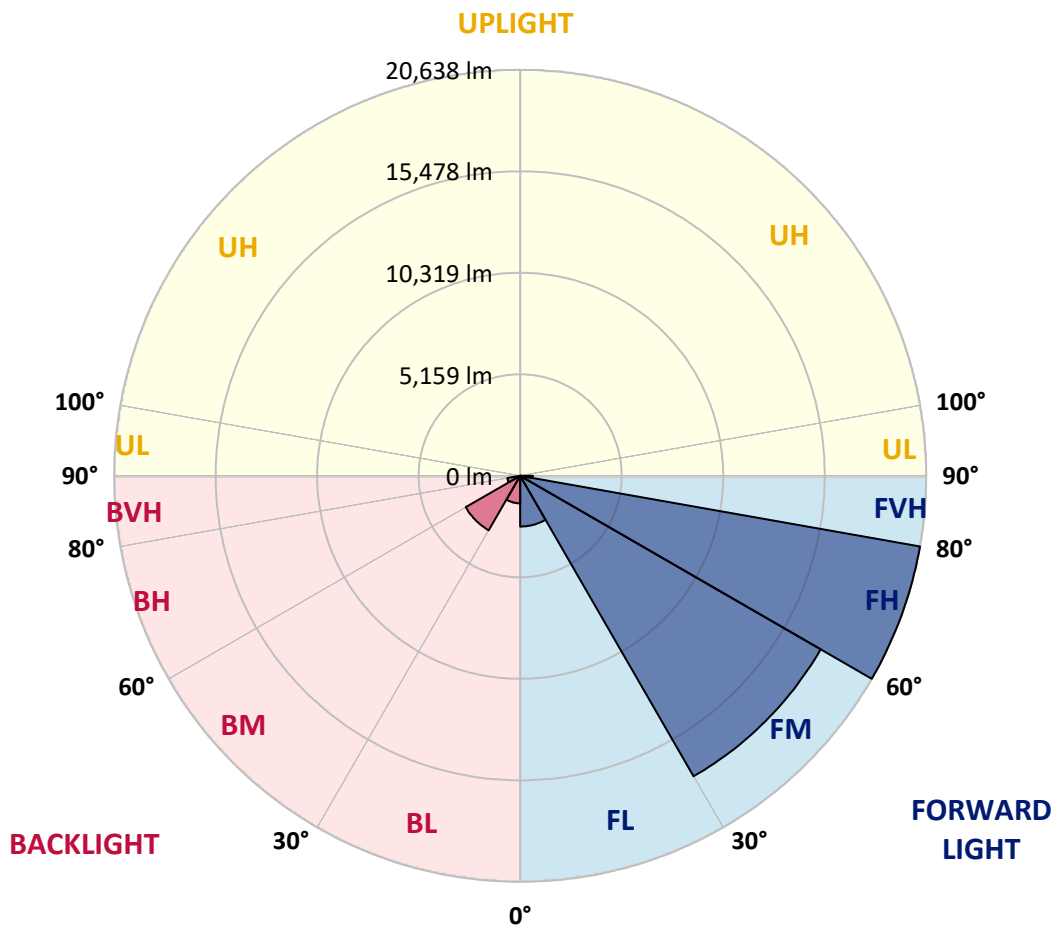
CATALOG NUMBER: NAV-SB6D-735-U-T4FT-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2577.9	5.5			
FM (30°-60°)	17635.1	37.7			
FH (60°-80°)	20638.0	44.1			G5
FVH (80°-90°)	650.8	1.4			G4/750
BL (0°-30°)	1398.5	3.0	B3/2500		
BM (30°-60°)	3195.2	6.8	B3/5000		
BH (60°-80°)	660.5	1.4	B2/1000		G2/1000
BVH (80°-90°)	9.0	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



REPORT NUMBER: P885470

CATALOG NUMBER: NAV-SB6D-735-U-T4FT-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	6777.8	6777.8	6777.8	6777.8	6777.8	6777.8	6777.8	6777.8	6777.8	6777.8	6777.8
2.5°	6476.3	6531.1	6541.4	6558.5	6558.5	6579.1	6613.3	6661.3	6740.1	6781.2	6808.7
5°	5969.1	6010.3	6061.7	6102.8	6181.6	6191.9	6325.5	6455.7	6637.3	6774.4	6870.3
7.5°	5458.6	5506.5	5575.1	5674.5	5777.2	5808.1	6010.3	6229.6	6517.4	6774.4	6935.4
10°	5098.8	5102.2	5163.9	5263.3	5427.7	5465.4	5712.1	6024.0	6383.8	6733.3	6997.1
12.5°	4896.6	4920.6	4948.0	5023.4	5181.0	5205.0	5468.9	5835.5	6250.1	6709.3	7069.1
15°	4896.6	4913.7	4930.9	4968.6	5095.4	5115.9	5348.9	5715.6	6181.6	6719.6	7185.6
17.5°	4948.0	4975.4	4961.7	5006.3	5139.9	5153.6	5359.2	5681.3	6178.2	6784.7	7363.8
20°	5071.4	5091.9	5064.5	5091.9	5225.6	5253.0	5465.4	5746.4	6236.4	6897.7	7586.5
22.5°	5266.7	5277.0	5211.9	5232.4	5369.5	5403.7	5650.5	5931.4	6376.9	7079.4	7884.6
25°	5513.4	5534.0	5434.6	5458.6	5588.8	5629.9	5914.3	6209.0	6599.6	7329.5	8265.0
27.5°	5797.8	5808.1	5722.4	5719.0	5886.9	5945.2	6233.0	6551.7	6897.7	7644.7	8744.7
30°	6123.3	6154.2	6071.9	6058.2	6270.7	6318.7	6603.1	6973.1	7336.4	8117.6	9426.6
32.5°	6380.3	6404.3	6356.3	6390.6	6606.5	6644.2	7051.9	7569.4	8025.1	8789.2	10355.2
35°	6750.4	6764.1	6654.5	6716.1	6962.9	7058.8	7665.3	8405.5	8892.0	9632.2	11568.2
37.5°	8090.2	8090.2	7624.2	7319.2	7555.7	7641.3	8504.8	9457.4	9961.1	10763.0	13096.5
40°	9944.0	9913.2	9231.3	8607.6	8576.8	8744.7	9700.7	10783.5	11342.0	12119.9	14816.6
42.5°	11921.1	11873.2	10944.6	10327.8	10225.0	10283.2	11081.6	12418.0	12986.8	13774.9	16667.0
45°	13675.6	13661.9	12812.1	11982.8	11797.8	11982.8	12805.2	14330.0	14737.8	15567.0	18513.9
47.5°	15145.6	15145.6	14525.4	13984.0	13888.0	13997.7	15138.7	16451.1	16413.4	17475.7	20312.9
50°	16838.3	16824.6	16235.2	16002.2	16101.6	16255.8	17825.2	18685.3	18147.3	19350.0	21920.0
52.5°	18023.9	18106.2	17904.0	17866.3	18373.4	18640.7	20552.8	20871.4	19699.5	21128.4	23122.7
55°	18962.8	19058.8	19291.8	19555.6	20532.2	20881.7	23194.7	22944.5	20998.2	22670.4	23814.9
57.5°	20292.3	20155.3	20515.1	21035.9	22615.6	23037.0	25754.3	24901.1	22043.3	23921.1	23890.3
60°	21906.3	21926.8	21988.5	22646.4	24695.5	25236.9	28276.3	26751.5	22714.9	24688.7	23054.2
62.5°	23845.7	23876.6	24003.3	25014.2	27488.2	27998.8	30962.8	28266.0	23023.3	24472.8	20895.4
65°	23712.1	23842.3	25257.5	28714.9	31733.8	32237.5	34098.1	29328.3	22557.3	22499.1	17013.1
67.5°	21601.3	21813.7	24181.5	33135.2	38134.6	38696.6	37887.9	29537.3	20545.9	17496.2	11098.8
70°	18832.6	18908.0	21755.5	37110.1	45546.4	46115.2	41280.3	27238.0	15591.0	9759.0	4972.0
72.5°	14707.0	14724.1	18065.0	38031.8	49569.2	49600.0	38617.8	20220.4	8384.9	3748.7	1727.0
75°	10506.0	10403.2	12099.3	30842.8	43610.3	43959.9	28951.4	9484.8	3203.9	1771.6	860.1
77.5°	5633.3	5746.4	6846.3	18291.2	30126.7	30722.9	15796.6	2734.4	1631.1	1206.2	568.8
80°	1740.7	1836.7	2806.4	8374.6	17064.5	17424.3	5856.1	1216.4	1137.6	860.1	373.5
82.5°	548.3	568.8	1309.0	3519.1	7082.8	7247.3	1696.2	688.7	777.8	568.8	219.3
85°	157.6	161.1	582.5	1312.4	1751.0	1785.3	476.3	267.3	445.5	352.9	113.1
87.5°	17.1	54.8	219.3	219.3	154.2	150.8	51.4	58.3	126.8	44.5	20.6
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: P885470  
 CATALOG NUMBER: NAV-SB6D-735-U-T4FT-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6777.8	6777.8	6777.8	6777.8	6777.8	6777.8	6777.8	6777.8	6777.8	6777.8	6777.8
2.5°	6791.5	6794.9	6750.4	6675.0	6592.8	6524.2	6438.6	6370.1	6322.1	6308.4	6332.4
5°	6839.5	6815.5	6688.7	6459.1	6185.0	5948.6	5684.7	5475.7	5338.6	5280.4	5301.0
7.5°	6911.5	6842.9	6565.4	6113.1	5588.8	5122.8	4649.9	4283.3	4050.2	3933.7	3950.9
10°	6973.1	6836.1	6359.8	5612.8	4810.9	4105.1	3467.7	3025.7	2779.0	2662.5	2665.9
12.5°	7031.4	6832.6	6092.5	5020.0	3933.7	3070.2	2477.4	2258.1	2189.6	2165.6	2158.8
15°	7141.0	6842.9	5756.7	4341.5	3060.0	2319.8	2103.9	2100.5	2114.2	2107.4	2103.9
17.5°	7291.8	6853.2	5376.3	3621.9	2360.9	2045.7	2035.4	2066.2	2086.8	2076.5	2073.1
20°	7487.1	6894.3	4972.0	2909.2	2028.5	1977.1	2001.1	2028.5	2045.7	2028.5	2025.1
22.5°	7761.3	6966.3	4530.0	2336.9	1922.3	1936.0	1956.6	1987.4	2004.6	1980.6	1977.1
25°	8097.1	7079.4	4094.8	2032.0	1870.9	1888.1	1918.9	1953.2	1973.7	1949.7	1946.3
27.5°	8532.2	7261.0	3693.9	1963.4	1819.5	1829.8	1874.4	1925.7	1953.2	1922.3	1922.3
30°	9162.7	7559.1	3347.8	1994.3	1788.7	1764.7	1826.4	1898.3	1929.2	1901.8	1898.3
32.5°	9998.8	7980.6	3135.3	2042.3	1775.0	1689.3	1747.6	1840.1	1891.5	1874.4	1874.4
35°	11095.3	8621.3	3053.1	2097.1	1764.7	1610.5	1651.6	1751.0	1840.1	1857.2	1857.2
37.5°	12424.9	9512.2	3077.1	2121.1	1733.9	1545.4	1566.0	1651.6	1768.1	1823.0	1836.7
40°	13936.0	10550.5	3214.2	2097.1	1699.6	1490.6	1494.0	1559.1	1661.9	1744.1	1771.6
42.5°	15495.1	11763.5	3467.7	2008.0	1668.8	1442.6	1432.3	1476.9	1545.4	1603.6	1627.6
45°	16978.8	13010.8	3717.9	1884.6	1631.1	1394.6	1370.6	1387.8	1401.5	1425.5	1439.2
47.5°	18274.1	13888.0	3645.9	1771.6	1579.7	1339.8	1298.7	1291.8	1250.7	1247.3	1243.9
50°	19168.4	14079.9	3238.1	1658.5	1504.3	1278.1	1213.0	1171.9	1099.9	1065.7	1069.1
52.5°	19452.8	13322.6	2645.3	1545.4	1380.9	1195.9	1103.4	1038.3	949.2	918.3	914.9
55°	19075.9	11838.9	2114.2	1408.3	1209.6	1086.2	983.4	897.8	825.8	788.1	788.1
57.5°	18154.1	9950.8	1672.2	1247.3	1028.0	962.9	860.1	774.4	712.7	675.0	668.2
60°	16625.9	7901.7	1322.7	1055.4	877.2	829.2	723.0	668.2	613.4	568.8	558.5
62.5°	14306.1	5640.2	1038.3	836.1	733.3	678.5	616.8	575.7	510.6	448.9	438.6
65°	11163.9	3450.6	801.8	613.4	589.4	562.0	524.3	486.6	407.8	346.1	335.8
67.5°	7041.7	1634.5	572.2	462.6	466.0	452.3	435.2	404.3	346.1	291.3	284.4
70°	3101.1	791.5	376.9	352.9	346.1	346.1	359.8	349.5	294.7	243.3	233.0
72.5°	1055.4	424.9	281.0	267.3	250.1	246.7	301.5	291.3	236.4	188.5	178.2
75°	551.7	284.4	205.6	191.9	150.8	181.6	239.9	226.2	167.9	123.4	113.1
77.5°	359.8	202.2	140.5	123.4	85.7	119.9	178.2	157.6	99.4	61.7	54.8
80°	226.2	133.6	82.2	58.3	41.1	65.1	95.9	68.5	37.7	13.7	10.3
82.5°	119.9	68.5	30.8	20.6	17.1	20.6	24.0	17.1	6.9	0.0	0.0
85°	48.0	24.0	10.3	6.9	3.4	0.0	6.9	3.4	0.0	0.0	0.0
87.5°	17.1	3.4	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)