

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: P885500

Luminaire Tested: **NAV-SB6D-760-U-T4FT-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885500
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-760-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 5700K, 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: 50419 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

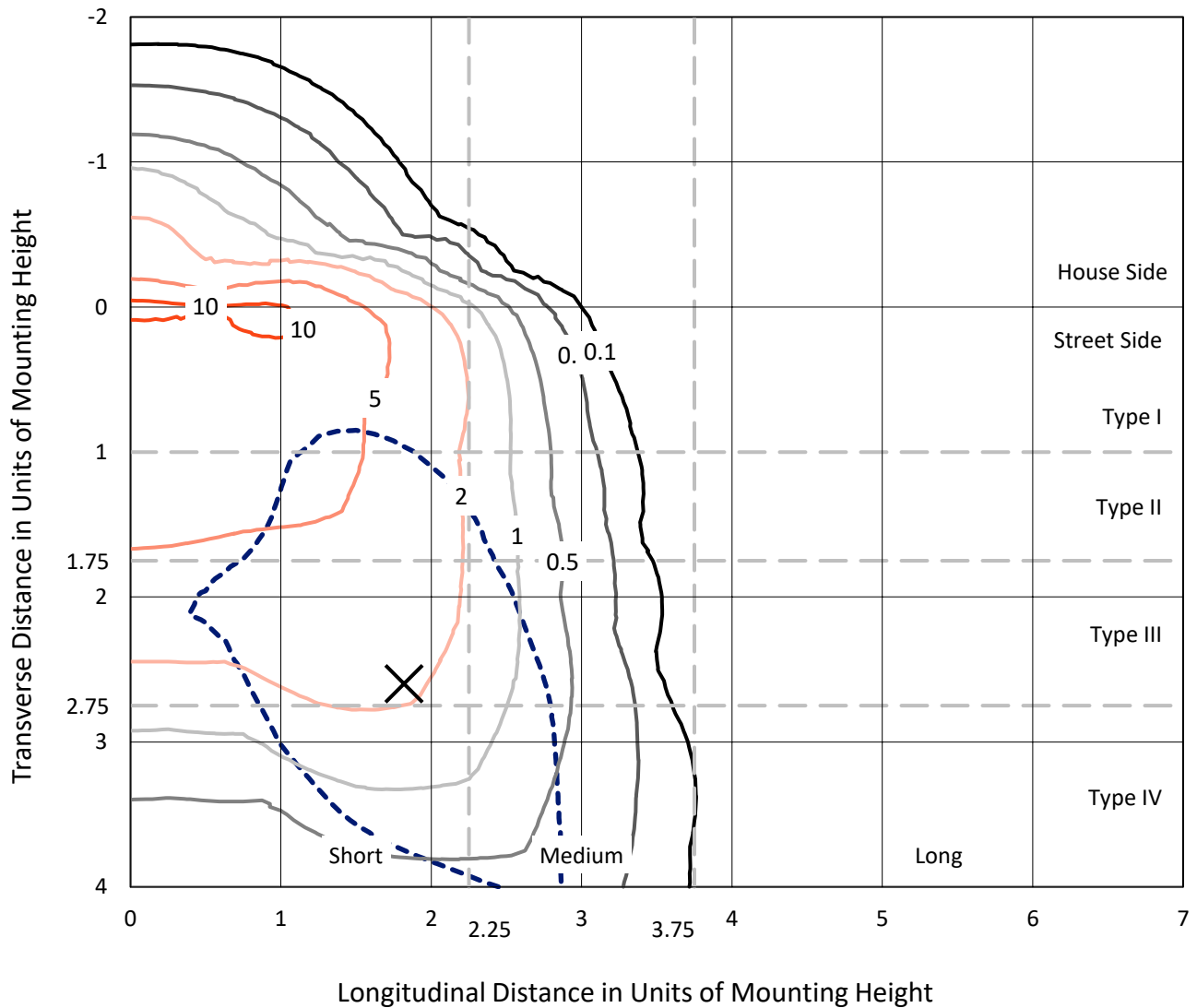
Input Watts (W): 440.1
Input Voltage (V): 120.0
Input Current (Ain): 3.68
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

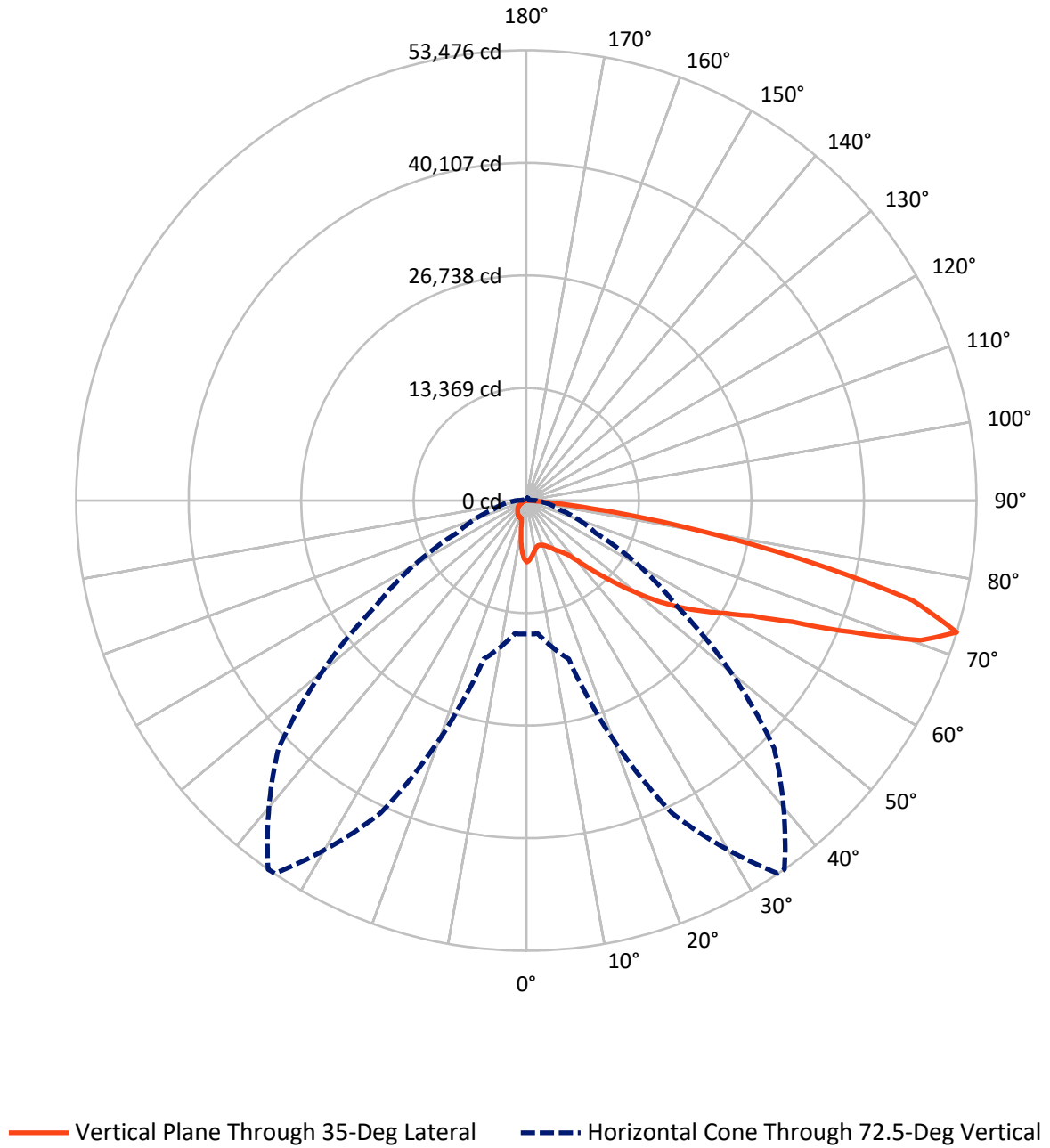
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5674.4	0.0	5674.4
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	44744.6	0.0	44744.6
	% Fixture	88.7	0.0	88.7
Total	Lumens	50419.0	0.0	50419.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	600.5	1.2
10°-20°	1404.7	2.8
20°-30°	2282.0	4.5
30°-40°	3807.4	7.6
40°-50°	7203.8	14.3
50°-60°	11446.7	22.7
60°-70°	14160.4	28.1
70°-80°	8802.2	17.5
80°-90°	711.4	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°	50419.0	100.0
0°-180°	50419.0	100.0

Coefficient of Utilization



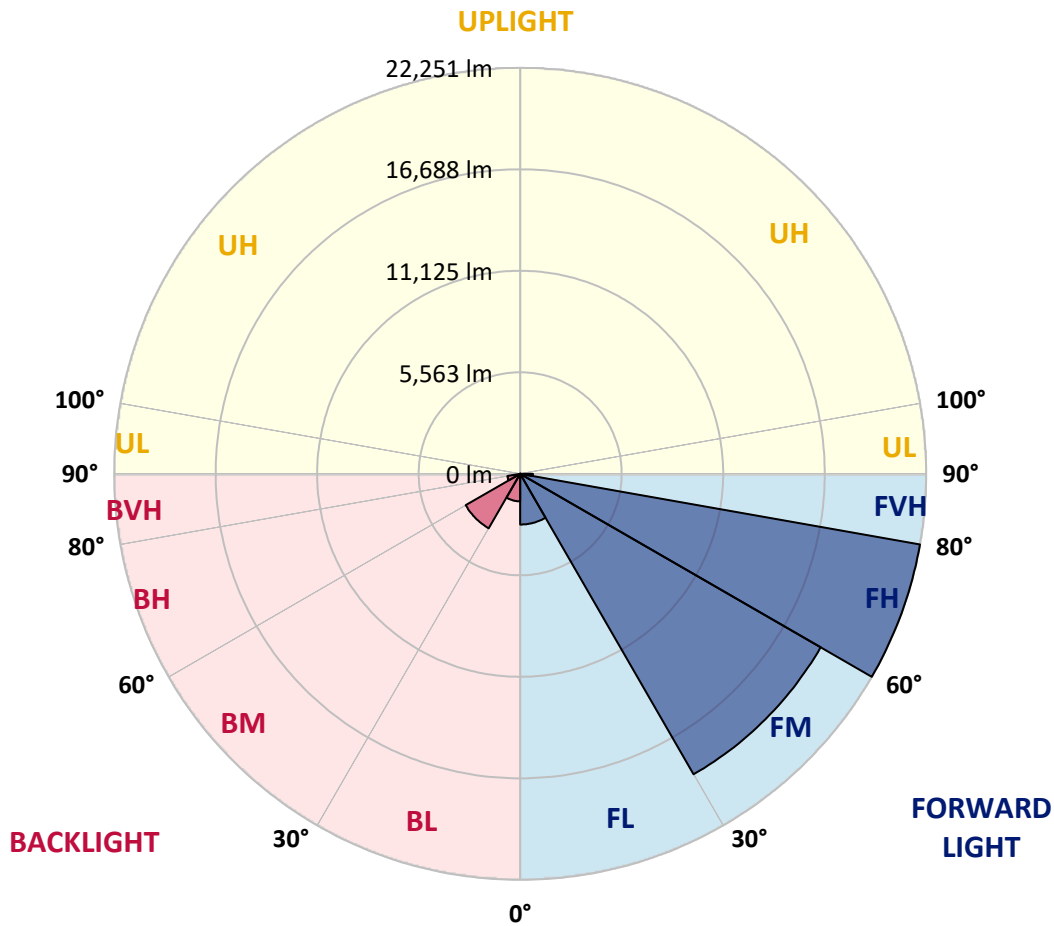
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2779.4	5.5			
FM (30°-60°)	19013.0	37.7			
FH (60°-80°)	22250.5	44.1			G5
FVH (80°-90°)	701.7	1.4			G4/750
BL (0°-30°)	1507.8	3.0	B3/2500		
BM (30°-60°)	3444.9	6.8	B3/5000		
BH (60°-80°)	712.1	1.4	B2/1000		G2/1000
BVH (80°-90°)	9.7	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°	7307.4	7307.4	7307.4	7307.4	7307.4	7307.4	7307.4	7307.4	7307.4	7307.4	7307.4
2.5°	6982.3	7041.4	7052.5	7071.0	7071.0	7093.1	7130.1	7181.8	7266.8	7311.1	7340.7
5°	6435.5	6479.9	6535.3	6579.6	6664.6	6675.7	6819.8	6960.1	7155.9	7303.7	7407.2
7.5°	5885.1	5936.8	6010.7	6117.8	6228.7	6261.9	6479.9	6716.3	7026.6	7303.7	7477.3
10°	5497.2	5500.9	5567.4	5674.5	5851.8	5892.5	6158.5	6494.6	6882.6	7259.4	7543.8
12.5°	5279.2	5305.1	5334.6	5415.9	5585.8	5611.7	5896.2	6291.5	6738.5	7233.5	7621.4
15°	5279.2	5297.7	5316.2	5356.8	5493.5	5515.6	5766.9	6162.2	6664.6	7244.6	7747.0
17.5°	5334.6	5364.2	5349.4	5397.4	5541.5	5556.3	5777.9	6125.2	6660.9	7314.8	7939.1
20°	5467.6	5489.8	5460.2	5489.8	5633.9	5663.4	5892.5	6195.4	6723.7	7436.7	8179.3
22.5°	5678.2	5689.3	5619.1	5641.3	5789.0	5826.0	6092.0	6394.9	6875.2	7632.5	8500.7
25°	5944.2	5966.4	5859.2	5885.1	6025.5	6069.8	6376.4	6694.1	7115.3	7902.2	8910.7
27.5°	6250.8	6261.9	6169.5	6165.9	6346.9	6409.7	6720.0	7063.6	7436.7	8242.1	9428.0
30°	6601.8	6635.0	6546.4	6531.6	6760.6	6812.4	7119.0	7518.0	7909.6	8751.9	10163.1
32.5°	6878.9	6904.7	6853.0	6889.9	7122.7	7163.3	7603.0	8160.8	8652.1	9476.0	11164.3
35°	7277.8	7292.6	7174.4	7240.9	7506.9	7610.3	8264.2	9062.2	9586.8	10384.8	12472.1
37.5°	8722.3	8722.3	8219.9	7891.1	8146.0	8238.4	9169.4	10196.4	10739.4	11603.9	14119.8
40°	10721.0	10687.7	9952.6	9280.2	9246.9	9428.0	10458.7	11626.1	12228.3	13066.9	15974.3
42.5°	12852.6	12800.9	11799.7	11134.7	11023.9	11086.7	11947.5	13388.3	14001.5	14851.2	17969.3
45°	14744.1	14729.3	13813.1	12919.1	12719.6	12919.1	13805.7	15449.7	15889.4	16783.4	19960.5
47.5°	16329.0	16329.0	15660.3	15076.6	14973.2	15091.4	16321.6	17736.5	17695.9	18841.1	21900.0
50°	18154.0	18139.2	17503.8	17252.6	17359.7	17525.9	19218.0	20145.2	19565.2	20861.9	23632.7
52.5°	19432.2	19520.9	19302.9	19262.3	19809.0	20097.2	22158.6	22502.2	21238.8	22779.3	24929.4
55°	20444.5	20547.9	20799.1	21083.6	22136.5	22513.3	25007.0	24737.3	22638.9	24441.8	25675.7
57.5°	21877.9	21730.1	22118.0	22679.6	24382.6	24837.0	27766.7	26846.8	23765.7	25790.2	25756.9
60°	23617.9	23640.1	23706.6	24415.9	26625.1	27208.8	30485.7	28841.7	24489.8	26617.7	24855.5
62.5°	25708.9	25742.2	25878.8	26968.7	29636.0	30186.4	33382.1	30474.6	24822.3	26385.0	22528.1
65°	25564.8	25705.2	27231.0	30958.6	34213.3	34756.3	36762.4	31619.9	24319.8	24257.0	18342.4
67.5°	23289.1	23518.2	26071.0	35724.3	41114.3	41720.2	40848.3	31845.2	22151.3	18863.3	11966.0
70°	20304.1	20385.4	23455.4	40009.7	49105.2	49718.4	44505.7	29366.3	16809.2	10521.5	5360.5
72.5°	15856.1	15874.6	19476.6	41003.5	53442.3	53475.6	41635.2	21800.3	9040.0	4041.6	1861.9
75°	11326.8	11216.0	13044.7	33252.7	47017.9	47394.7	31213.5	10225.9	3454.2	1910.0	927.3
77.5°	6073.5	6195.4	7381.3	19720.4	32480.6	33123.4	17030.9	2948.1	1758.5	1300.4	613.3
80°	1876.7	1980.2	3025.7	9029.0	18397.8	18785.7	6313.6	1311.5	1226.5	927.3	402.7
82.5°	591.1	613.3	1411.2	3794.1	7636.2	7813.5	1828.7	742.6	838.6	613.3	236.4
85°	169.9	173.6	628.0	1414.9	1887.8	1924.8	513.5	288.2	480.3	380.5	121.9
87.5°	18.5	59.1	236.4	236.4	166.2	162.6	55.4	62.8	136.7	48.0	22.2
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°	7307.4	7307.4	7307.4	7307.4	7307.4	7307.4	7307.4	7307.4	7307.4	7307.4	7307.4
2.5°	7322.2	7325.9	7277.8	7196.6	7107.9	7034.0	6941.7	6867.8	6816.1	6801.3	6827.1
5°	7373.9	7348.0	7211.4	6963.8	6668.3	6413.4	6128.9	5903.6	5755.8	5693.0	5715.1
7.5°	7451.5	7377.6	7078.4	6590.7	6025.5	5523.0	5013.2	4617.9	4366.7	4241.1	4259.6
10°	7518.0	7370.2	6856.7	6051.3	5186.9	4425.8	3738.7	3262.1	2996.1	2870.5	2874.2
12.5°	7580.8	7366.5	6568.5	5412.2	4241.1	3310.1	2671.0	2434.6	2360.7	2334.8	2327.4
15°	7699.0	7377.6	6206.5	4680.7	3299.0	2501.1	2268.3	2264.6	2279.4	2272.0	2268.3
17.5°	7861.6	7388.7	5796.4	3904.9	2545.4	2205.5	2194.4	2227.7	2249.9	2238.8	2235.1
20°	8072.1	7433.0	5360.5	3136.5	2187.0	2131.6	2157.5	2187.0	2205.5	2187.0	2183.4
22.5°	8367.7	7510.6	4883.9	2519.5	2072.5	2087.3	2109.5	2142.7	2161.2	2135.3	2131.6
25°	8729.7	7632.5	4414.7	2190.7	2017.1	2035.6	2068.8	2105.8	2127.9	2102.1	2098.4
27.5°	9198.9	7828.3	3982.5	2116.9	1961.7	1972.8	2020.8	2076.2	2105.8	2072.5	2072.5
30°	9878.7	8149.7	3609.4	2150.1	1928.4	1902.6	1969.1	2046.7	2079.9	2050.4	2046.7
32.5°	10780.1	8604.1	3380.3	2201.8	1913.7	1821.3	1884.1	1983.9	2039.3	2020.8	2020.8
35°	11962.3	9295.0	3291.7	2260.9	1902.6	1736.3	1780.7	1887.8	1983.9	2002.3	2002.3
37.5°	13395.7	10255.5	3317.5	2286.8	1869.3	1666.1	1688.3	1780.7	1906.3	1965.4	1980.2
40°	15024.9	11374.9	3465.3	2260.9	1832.4	1607.0	1610.7	1680.9	1791.8	1880.4	1910.0
42.5°	16705.8	12682.7	3738.7	2164.9	1799.1	1555.3	1544.2	1592.3	1666.1	1729.0	1754.8
45°	18305.5	14027.4	4008.4	2031.9	1758.5	1503.6	1477.7	1496.2	1511.0	1536.8	1551.6
47.5°	19701.9	14973.2	3930.8	1910.0	1703.1	1444.5	1400.2	1392.8	1348.4	1344.7	1341.0
50°	20666.1	15180.0	3491.2	1788.1	1621.8	1378.0	1307.8	1263.5	1185.9	1148.9	1152.6
52.5°	20972.8	14363.6	2852.0	1666.1	1488.8	1289.3	1189.6	1119.4	1023.3	990.1	986.4
55°	20566.4	12763.9	2279.4	1518.4	1304.1	1171.1	1060.3	967.9	890.3	849.7	849.7
57.5°	19572.6	10728.4	1802.8	1344.7	1108.3	1038.1	927.3	834.9	768.4	727.8	720.4
60°	17924.9	8519.1	1426.0	1137.9	945.8	894.0	779.5	720.4	661.3	613.3	602.2
62.5°	15423.9	6080.9	1119.4	901.4	790.6	731.5	665.0	620.6	550.5	484.0	472.9
65°	12036.2	3720.2	864.5	661.3	635.4	605.9	565.2	524.6	439.6	373.1	362.0
67.5°	7591.9	1762.2	617.0	498.7	502.4	487.7	469.2	435.9	373.1	314.0	306.6
70°	3343.4	853.4	406.4	380.5	373.1	373.1	387.9	376.8	317.7	262.3	251.2
72.5°	1137.9	458.1	302.9	288.2	269.7	266.0	325.1	314.0	254.9	203.2	192.1
75°	594.8	306.6	221.7	206.9	162.6	195.8	258.6	243.8	181.0	133.0	121.9
77.5°	387.9	218.0	151.5	133.0	92.4	129.3	192.1	169.9	107.1	66.5	59.1
80°	243.8	144.1	88.7	62.8	44.3	70.2	103.4	73.9	40.6	14.8	11.1
82.5°	129.3	73.9	33.2	22.2	18.5	22.2	25.9	18.5	7.4	0.0	0.0
85°	51.7	25.9	11.1	7.4	3.7	0.0	7.4	3.7	0.0	0.0	0.0
87.5°	18.5	3.7	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)