

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: P885309

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

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885309  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
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: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 49041 lumens  
Efficiency: N/A  
Efficacy: 163.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5

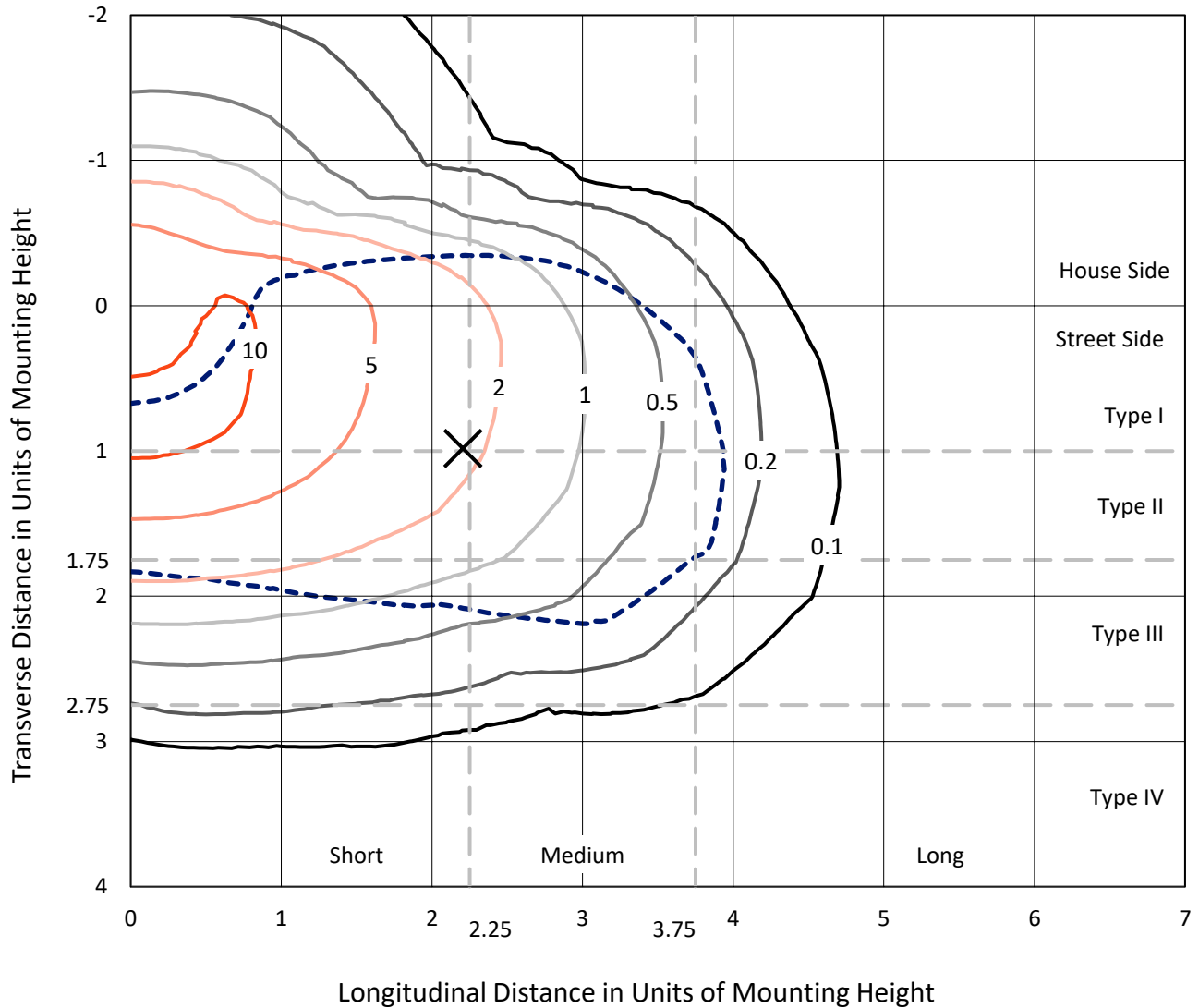
Input Watts (W): 300.9  
Input Voltage (V): 120.0  
Input Current (Ain): 2.518  
Voltage Rise (V): NR  
Power Factor: 0.997  
Total Harmonic Distortion (THDi): 6.297  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P885309  
 CATALOG NUMBER: NAV-SB6C-740-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

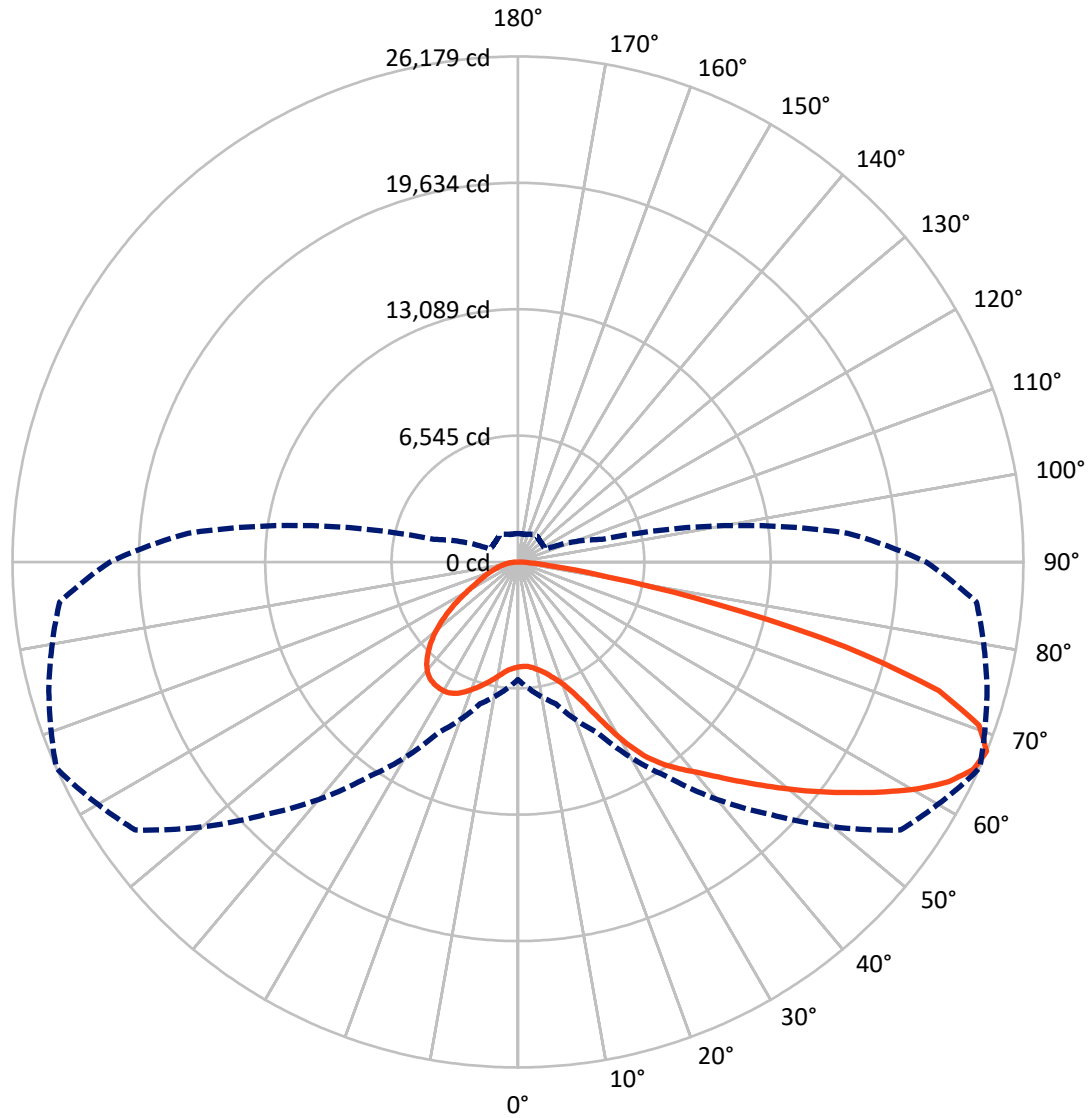
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc  
 Type III - Short - N/A

REPORT NUMBER: P885309  
CATALOG NUMBER: NAV-SB6C-740-U-T3

### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P885309  
 CATALOG NUMBER: NAV-SB6C-740-U-T3

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12193.9	0.0	12193.9
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	36847.1	0.0	36847.1
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	49041.0	0.0	49041.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	539.3	1.1
10°-20°	1781.7	3.6
20°-30°	3434.2	7.0
30°-40°	6021.4	12.3
40°-50°	8951.8	18.3
50°-60°	11347.3	23.1
60°-70°	11103.0	22.6
70°-80°	5296.3	10.8
80°-90°	566.0	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°	49041.0	100.0
0°-180°	49041.0	100.0

**Coefficient of Utilization**



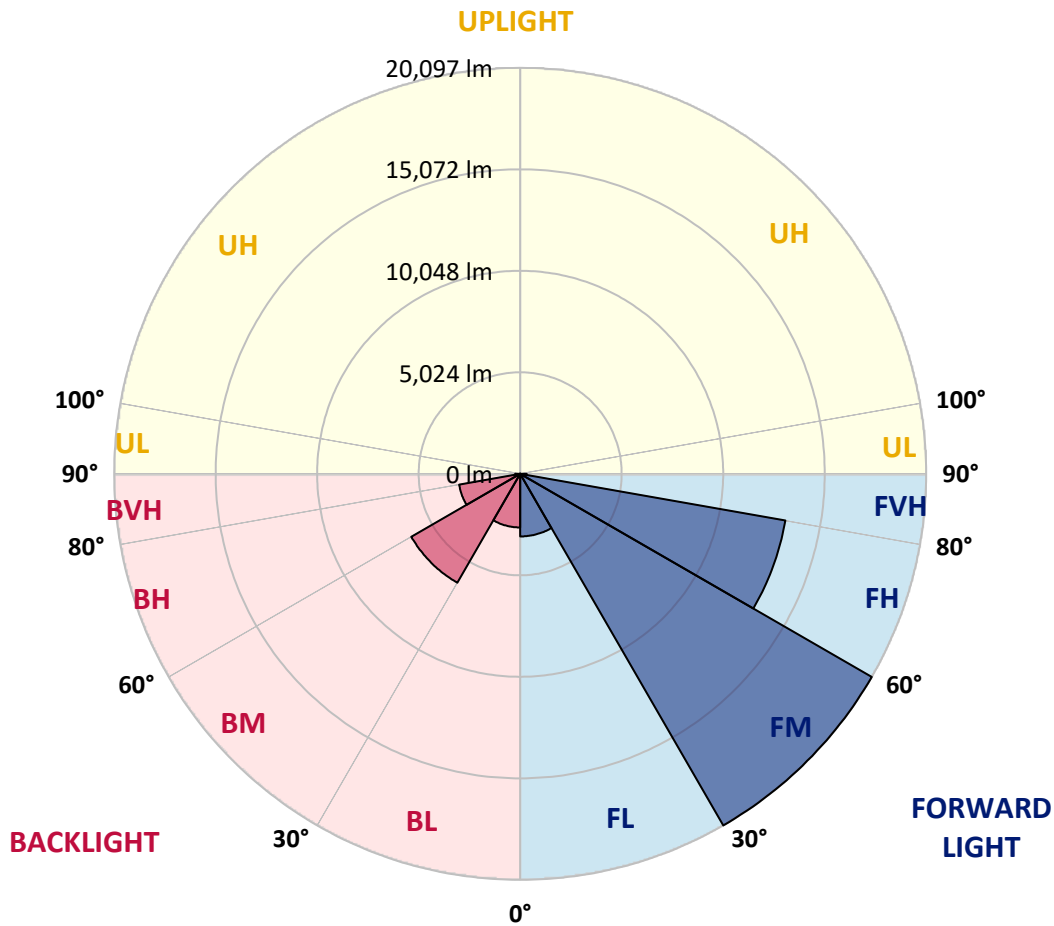
REPORT NUMBER: P885309  
 CATALOG NUMBER: NAV-SB6C-740-U-T3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3098.9	6.3			
FM (30°-60°)	20096.6	41.0			
FH (60°-80°)	13330.7	27.2			G5
FVH (80°-90°)	320.9	0.7			G3/500
BL (0°-30°)	2656.3	5.4	B4/5000		
BM (30°-60°)	6223.9	12.7	B4/8500		
BH (60°-80°)	3068.6	6.3	B4/5000		G4/5000
BVH (80°-90°)	245.1	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



REPORT NUMBER: P885309  
 CATALOG NUMBER: NAV-SB6C-740-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5439.3	5439.3	5439.3	5439.3	5439.3	5439.3	5439.3	5439.3	5439.3	5439.3	5439.3
2.5°	5382.6	5413.5	5405.8	5392.9	5390.3	5395.5	5403.2	5411.0	5408.4	5421.3	5441.9
5°	5367.1	5398.1	5395.5	5395.5	5405.8	5426.4	5439.3	5452.2	5439.3	5454.8	5483.1
7.5°	5377.5	5400.6	5411.0	5421.3	5447.0	5485.7	5516.6	5544.9	5529.5	5547.5	5583.6
10°	5508.9	5526.9	5537.2	5537.2	5555.2	5599.0	5630.0	5681.5	5668.6	5697.0	5743.3
12.5°	5748.5	5766.5	5766.5	5756.2	5769.1	5797.4	5807.8	5864.4	5841.3	5887.6	5934.0
15°	6042.2	6078.3	6050.0	6031.9	6037.1	6065.4	6062.8	6106.6	6083.5	6122.1	6163.3
17.5°	6366.9	6413.3	6366.9	6364.3	6354.0	6384.9	6387.5	6426.1	6384.9	6413.3	6441.6
20°	6750.8	6815.2	6776.6	6789.5	6766.3	6779.1	6792.0	6848.7	6784.3	6804.9	6797.2
22.5°	7291.9	7369.2	7328.0	7376.9	7361.5	7351.2	7348.6	7449.1	7348.6	7356.3	7281.6
25°	8080.4	8173.1	8101.0	8168.0	8168.0	8201.5	8240.1	8368.9	8201.5	8152.5	7959.3
27.5°	9245.0	9337.8	9196.0	9237.3	9224.4	9306.8	9265.6	9585.1	9404.7	9324.9	8935.8
30°	10646.7	10811.6	10543.6	10533.3	10520.4	10651.8	10711.1	10922.4	10739.5	10659.6	10190.6
32.5°	12161.8	12334.4	12014.9	11922.1	11873.2	11953.1	11904.1	12074.2	11947.9	11824.2	11244.5
35°	13764.4	13934.5	13630.4	13450.1	13254.3	13086.8	12911.6	12955.4	12836.8	12648.7	12048.4
37.5°	15279.5	15591.3	15269.2	15075.9	14715.2	14388.0	13898.4	13694.9	13584.1	13411.4	12805.9
40°	16822.9	17000.7	16755.9	16591.0	16199.4	15686.6	14903.3	14473.0	14323.6	14156.1	13643.3
42.5°	17959.2	18129.3	17997.9	17884.5	17577.9	16982.7	15970.0	15431.5	15215.1	15027.0	14591.5
45°	18861.0	18987.3	18904.8	18946.1	18814.7	18237.5	17075.4	16459.6	16235.4	16006.1	15663.4
47.5°	19224.3	19358.3	19489.7	19734.5	19958.7	19533.5	18263.3	17572.7	17335.7	17101.2	16763.6
50°	19183.1	19319.7	19701.0	20221.5	20917.2	20775.5	19515.5	18758.0	18539.0	18271.0	17959.2
52.5°	18853.3	19007.9	19497.5	20363.2	21471.2	21705.6	20790.9	19981.9	19775.7	19456.2	19144.5
55°	17987.6	18080.3	18814.7	20041.1	21602.6	22355.0	22040.6	21285.7	21079.5	20633.8	20293.6
57.5°	16382.3	16516.3	17585.6	19172.8	21272.8	22795.6	23138.3	22656.4	22458.0	21816.4	21460.9
60°	14287.5	14501.4	15725.3	17714.4	20432.8	22793.0	24135.4	24004.0	23839.1	22981.1	22610.0
62.5°	11917.0	12164.3	13341.9	15653.1	18964.1	22146.3	24759.0	25132.6	25047.6	24055.5	23581.4
65°	9152.2	9322.3	10494.7	12986.3	16678.6	20757.4	24831.1	25903.0	25918.5	24872.3	24089.0
67.5°	6093.8	6583.3	7601.1	9744.9	13617.6	18487.4	24197.3	26029.3	26178.7	25153.2	23834.0
70°	2973.4	3617.6	4614.8	6333.4	9744.9	15006.4	22540.5	24993.4	25325.8	24333.8	22313.7
72.5°	1234.2	1442.9	1986.6	3125.5	5593.9	10126.2	19211.5	22184.9	22800.7	21561.4	18760.5
75°	832.3	901.8	1136.3	1602.7	2548.3	4993.5	13854.6	16542.1	17534.1	16284.4	13310.9
77.5°	641.6	685.4	827.1	1120.8	1515.1	1888.7	7415.6	9969.0	10481.8	9703.6	6926.0
80°	505.0	538.5	618.4	816.8	1074.5	1010.0	2527.7	4516.9	4813.2	4037.6	2226.2
82.5°	438.0	450.9	443.2	554.0	713.7	590.1	829.7	1667.1	1839.7	1334.7	726.6
85°	316.9	353.0	368.5	342.7	378.8	298.9	340.1	590.1	649.3	579.7	409.7
87.5°	128.8	190.7	234.5	221.6	139.1	85.0	105.6	172.6	198.4	216.4	134.0
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: P885309  
 CATALOG NUMBER: NAV-SB6C-740-U-T3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5439.3	5439.3	5439.3	5439.3	5439.3	5439.3	5439.3	5439.3	5439.3	5439.3	5439.3
2.5°	5444.4	5462.5	5475.4	5490.8	5501.1	5516.6	5547.5	5565.6	5568.1	5581.0	5578.4
5°	5493.4	5519.2	5547.5	5588.7	5635.1	5673.8	5733.0	5774.3	5789.7	5802.6	5800.0
7.5°	5599.0	5635.1	5686.7	5758.8	5825.8	5877.3	5949.5	5998.4	6047.4	6065.4	6068.0
10°	5756.2	5807.8	5882.5	5980.4	6052.5	6119.5	6194.3	6235.5	6284.4	6305.0	6315.4
12.5°	5952.0	6006.2	6104.1	6240.6	6307.6	6354.0	6379.8	6369.5	6379.8	6397.8	6403.0
15°	6176.2	6235.5	6346.3	6493.1	6539.5	6498.3	6441.6	6390.1	6382.3	6387.5	6405.5
17.5°	6441.6	6485.4	6614.2	6737.9	6704.4	6534.4	6410.7	6328.2	6287.0	6274.1	6292.2
20°	6812.6	6812.6	6918.3	6995.6	6771.4	6482.8	6289.6	6155.6	6070.6	6034.5	6026.8
22.5°	7263.6	7222.3	7289.3	7235.2	6758.5	6338.5	6070.6	5838.7	5709.8	5658.3	5650.6
25°	7835.6	7786.6	7768.6	7433.6	6665.8	6109.2	5673.8	5392.9	5279.5	5251.2	5256.4
27.5°	8698.7	8575.1	8340.6	7541.8	6495.7	5748.5	5210.0	4949.7	4885.3	4887.9	4895.6
30°	9847.9	9600.6	9026.0	7559.9	6217.4	5238.3	4735.9	4550.4	4519.4	4532.3	4576.1
32.5°	10912.1	10677.6	9726.8	7477.4	5789.7	4738.4	4310.7	4187.0	4140.7	4156.1	4176.7
35°	11746.9	11682.5	10376.1	7361.5	5264.1	4269.5	3929.4	3823.7	3733.6	3712.9	3728.4
37.5°	12535.4	12509.6	10863.1	7199.1	4743.6	3937.1	3622.8	3483.6	3352.2	3280.1	3282.6
40°	13401.1	13375.4	11182.6	6949.2	4282.4	3648.5	3347.1	3164.1	3001.8	2870.4	2883.3
42.5°	14375.1	14223.1	11334.7	6591.1	3890.7	3403.7	3122.9	2875.5	2661.7	2540.6	2548.3
45°	15439.2	15096.6	11332.1	6135.0	3560.9	3179.6	2883.3	2532.8	2334.4	2221.1	2215.9
47.5°	16567.8	15931.4	11192.9	5630.0	3241.4	2932.2	2512.2	2244.3	2112.8	2043.3	2027.8
50°	17732.5	16712.1	10955.9	5050.2	2914.2	2651.4	2280.3	2097.4	1996.9	1932.5	1909.3
52.5°	18827.5	17420.7	10669.9	4393.2	2581.8	2378.2	2177.3	2035.5	1929.9	1857.8	1826.8
55°	19845.3	18031.4	10265.3	3720.7	2311.2	2195.3	2128.3	2009.8	1888.7	1803.7	1770.2
57.5°	20749.7	18428.2	9567.1	3089.4	2118.0	2069.0	2076.8	1966.0	1826.8	1754.7	1708.3
60°	21502.1	18719.3	8533.8	2504.5	1960.8	1945.4	1996.9	1883.5	1721.2	1638.7	1602.7
62.5°	21953.0	18714.2	7266.1	2051.0	1826.8	1832.0	1891.3	1780.5	1615.6	1538.3	1515.1
65°	21914.4	18255.5	5874.7	1754.7	1698.0	1703.2	1780.5	1667.1	1527.9	1481.6	1479.0
67.5°	21138.8	17137.3	4506.5	1561.4	1556.3	1579.5	1669.7	1589.8	1473.8	1468.7	1476.4
70°	19038.8	14815.7	3246.6	1406.8	1409.4	1442.9	1561.4	1540.8	1445.5	1455.8	1453.2
72.5°	15266.6	11296.0	2179.8	1244.5	1247.1	1301.2	1458.4	1502.2	1417.2	1553.7	1574.3
75°	10167.4	7044.5	1401.7	1071.9	1074.5	1144.0	1368.2	1427.5	1339.9	1548.6	1561.4
77.5°	4885.3	3166.7	1015.2	901.8	901.8	966.2	1182.7	1278.0	1141.5	1203.3	1102.8
80°	1687.7	1190.4	798.8	726.6	711.2	755.0	997.2	1108.0	984.3	907.0	850.3
82.5°	664.8	618.4	641.6	564.3	512.8	541.1	775.6	914.7	724.0	654.5	651.9
85°	381.3	402.0	453.5	373.6	296.3	332.4	569.4	657.0	546.2	481.8	492.1
87.5°	103.1	141.7	208.7	193.2	134.0	141.7	270.5	363.3	314.4	242.2	249.9
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)