

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: P970829

Luminaire Tested: **NAV-SB6C-727-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P970829  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6C-727-U-T2-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31529 lumens  
Efficiency: N/A  
Efficacy: 104.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

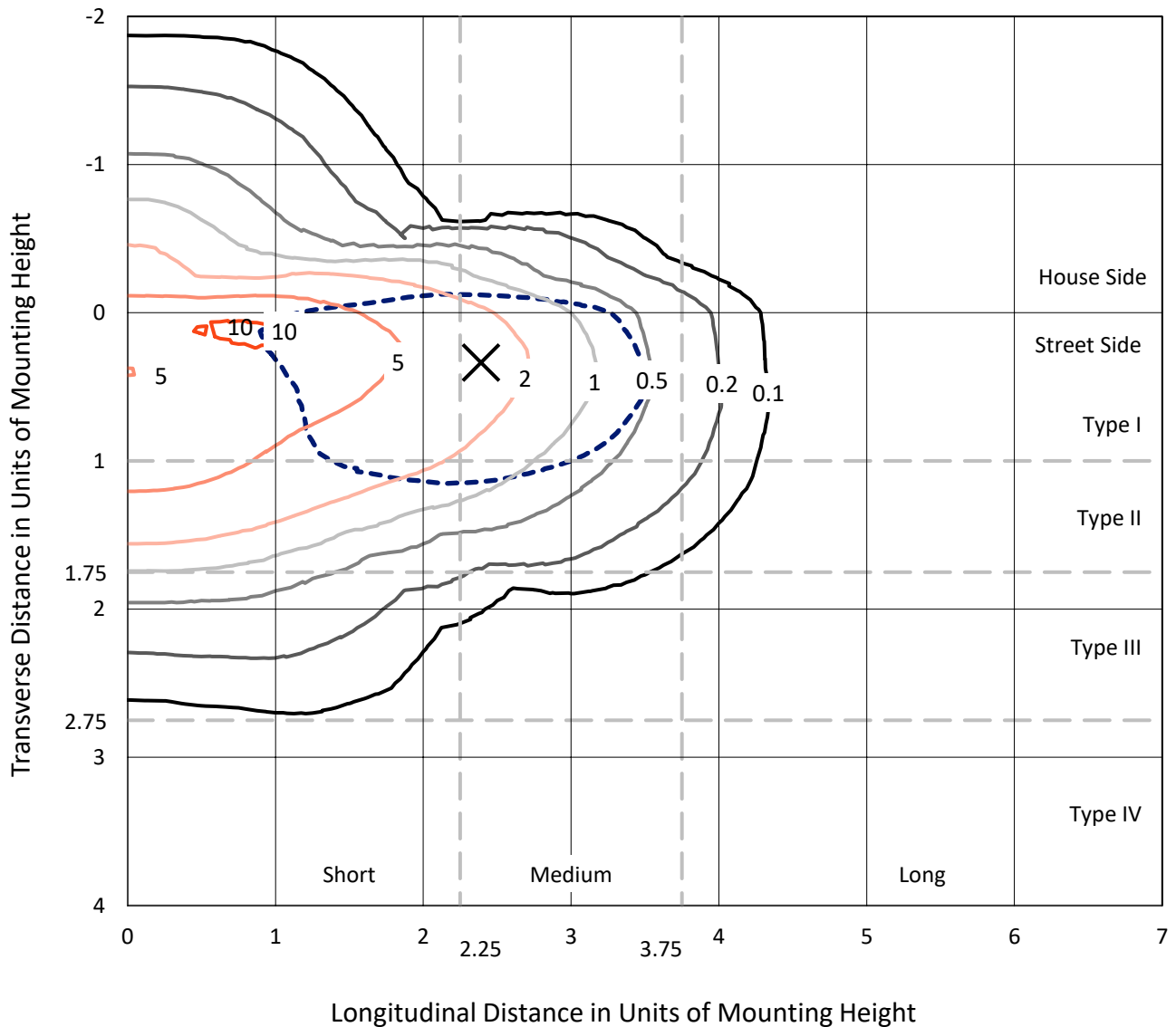
Input Watts (W): 300.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

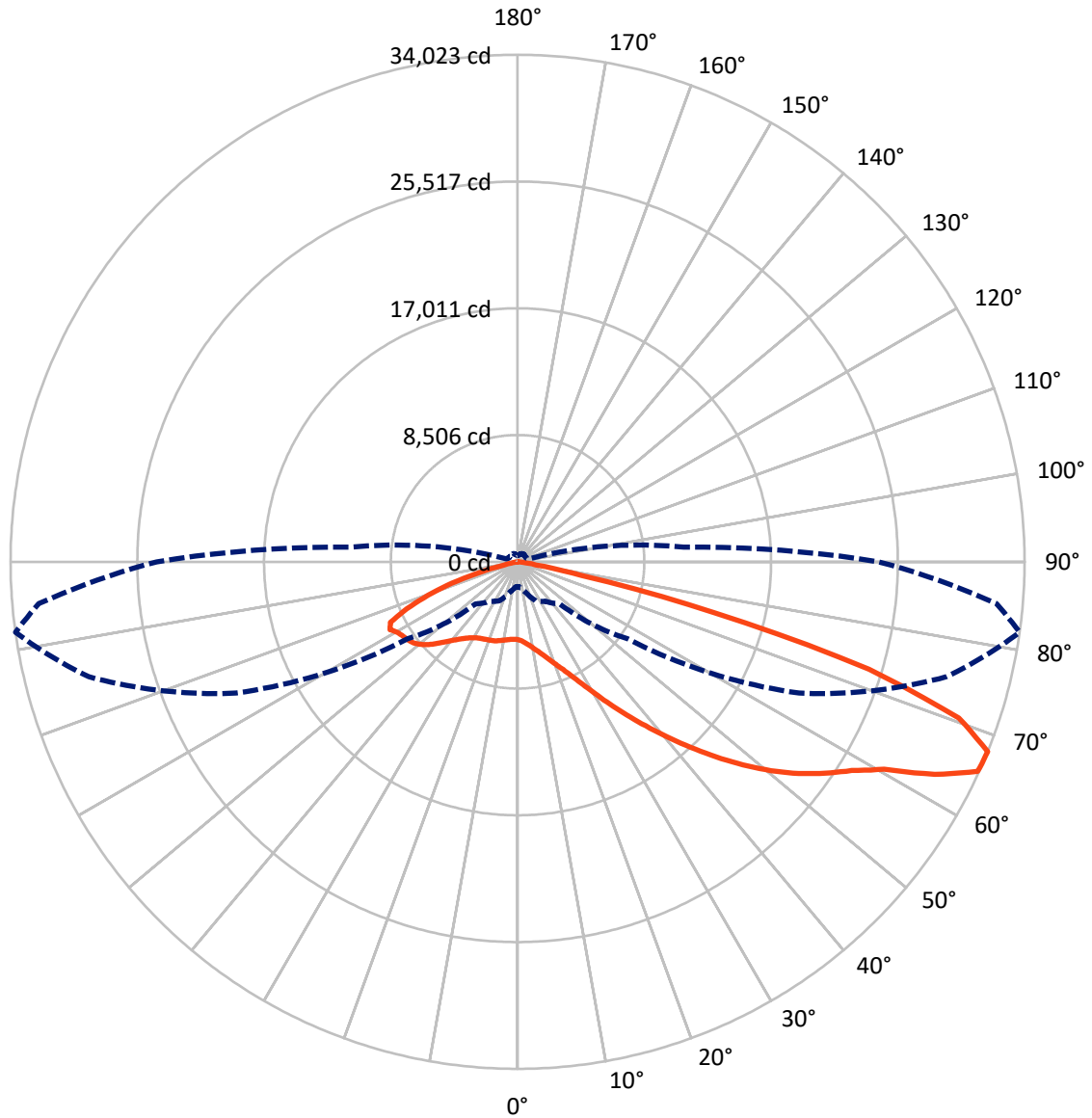
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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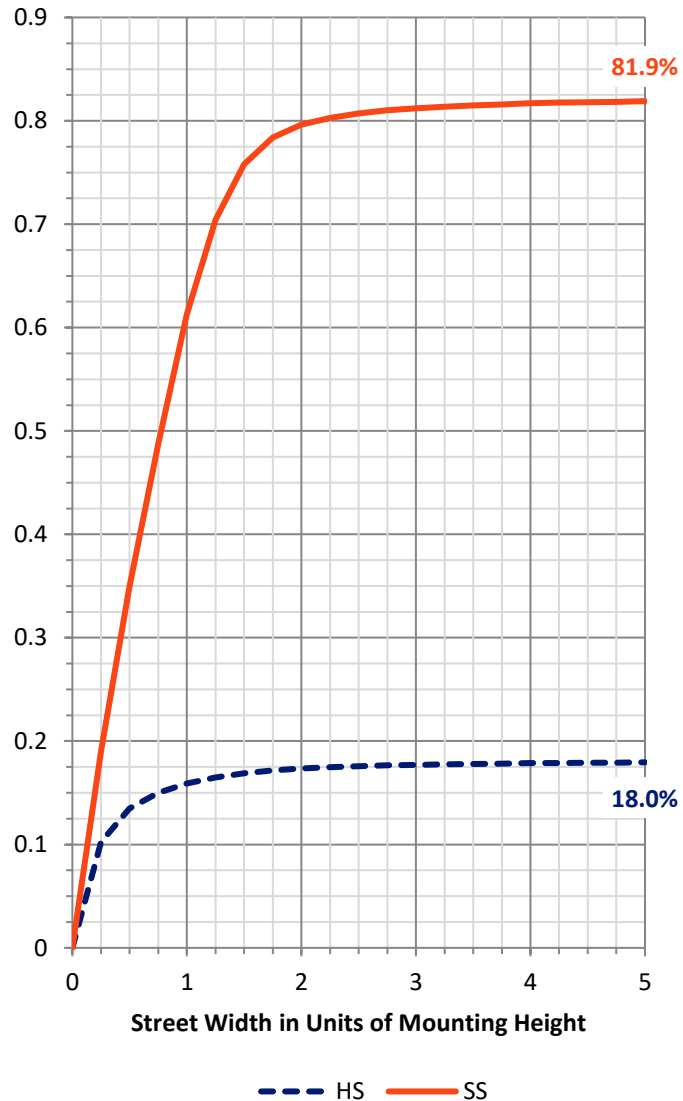
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5711.2	0.0	5711.2
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	25817.8	0.0	25817.8
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	31529.0	0.0	31529.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	465.4	1.5
10°-20°	1209.3	3.8
20°-30°	1936.9	6.1
30°-40°	3425.0	10.9
40°-50°	6000.9	19.0
50°-60°	8003.5	25.4
60°-70°	7450.9	23.6
70°-80°	2859.6	9.1
80°-90°	177.6	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°	31529.0	100.0
0°-180°	31529.0	100.0

**Coefficient of Utilization**



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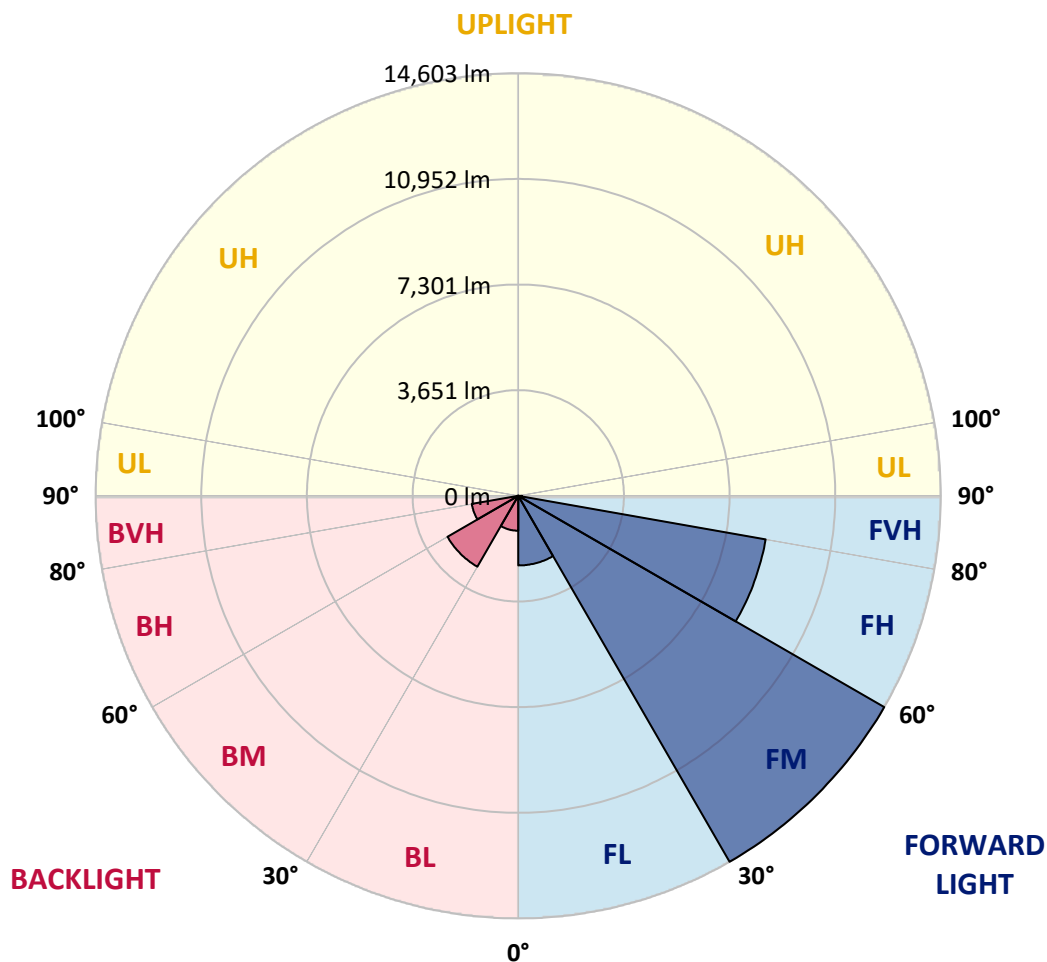
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2405.3	7.6			
FM (30°-60°)	14602.9	46.3			
FH (60°-80°)	8680.4	27.5			G4/12000
FVH (80°-90°)	129.1	0.4			G2/225
BL (0°-30°)	1206.2	3.8	B3/2500		
BM (30°-60°)	2826.4	9.0	B3/5000		
BH (60°-80°)	1630.1	5.2	B3/2500		G3/2500
BVH (80°-90°)	48.5	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-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	5223.3	5223.3	5223.3	5223.3	5223.3	5223.3	5223.3	5223.3	5223.3	5223.3	5223.3
2.5°	5520.6	5552.4	5534.3	5525.2	5509.3	5486.6	5468.5	5411.7	5352.7	5314.1	5300.5
5°	5631.9	5663.6	5661.4	5670.5	5681.8	5688.6	5684.1	5620.6	5536.5	5470.7	5432.1
7.5°	5536.5	5572.8	5602.3	5647.7	5727.2	5811.2	5852.0	5838.5	5752.2	5661.4	5613.7
10°	5266.4	5305.0	5375.4	5482.1	5650.0	5831.6	5983.7	6054.1	5999.6	5899.8	5833.9
12.5°	4771.6	4810.1	4948.6	5180.1	5461.6	5777.2	6067.7	6256.2	6269.7	6169.9	6092.7
15°	4215.4	4254.0	4401.6	4692.1	5121.1	5627.4	6113.1	6469.5	6589.8	6503.5	6410.5
17.5°	3870.4	3904.4	4015.6	4249.4	4696.7	5327.7	6097.2	6696.5	6971.2	6903.1	6791.9
20°	3766.0	3795.5	3847.6	4011.1	4383.4	5016.8	5992.9	6909.9	7382.0	7343.5	7218.7
22.5°	3877.2	3904.4	3920.3	3993.0	4226.8	4812.4	5861.2	7127.8	7858.8	7863.3	7711.2
25°	4133.7	4160.9	4142.7	4188.2	4290.3	4748.8	5811.2	7384.3	8458.1	8508.0	8335.5
27.5°	4555.9	4558.2	4515.0	4512.8	4528.7	4844.2	5863.4	7659.0	9213.9	9307.0	9093.7
30°	5402.6	5368.5	5202.9	5023.5	4941.8	5130.2	6008.8	7983.6	10106.1	10271.8	10003.9
32.5°	6707.9	6657.9	6353.8	5924.7	5493.4	5591.1	6269.7	8353.6	11077.7	11377.3	11050.4
35°	8124.4	8110.7	7793.0	7155.1	6401.4	6247.1	6694.3	8839.4	12137.7	12614.5	12226.3
37.5°	9441.0	9434.2	9252.6	8501.1	7584.1	7161.9	7375.3	9475.0	13272.7	13962.9	13504.3
40°	10644.1	10664.5	10482.9	9811.0	8887.1	8335.5	8301.4	10260.5	14534.9	15431.5	14886.7
42.5°	11683.8	11706.4	11522.5	11025.4	10174.2	9633.9	9438.7	11222.9	15767.5	17009.2	16364.5
45°	12389.7	12530.4	12503.2	12106.0	11495.3	10934.6	10805.2	12430.6	17172.6	18682.2	17926.2
47.5°	12589.5	12718.8	12923.2	12977.6	12605.3	12053.7	12208.1	13885.7	18593.6	20357.4	19497.1
50°	12096.8	12217.2	12641.6	13206.9	13465.7	13295.5	13572.3	15445.1	20048.7	22028.2	21038.4
52.5°	11125.3	11247.9	11783.6	12678.0	13733.6	14269.2	14941.2	16981.9	21458.4	23610.4	22498.0
55°	9720.2	9849.5	10537.4	11549.8	13222.8	14671.0	16083.0	18516.4	22750.0	25033.7	23814.6
57.5°	7808.9	7904.2	8619.2	10035.7	11938.0	14271.6	16925.2	20191.7	23966.8	26432.0	25119.9
60°	5089.3	5173.4	6004.1	7584.1	9808.7	12936.7	17093.2	22059.9	25583.0	28250.2	26879.2
62.5°	3384.6	3441.3	3934.0	5093.9	6907.7	10373.9	16110.2	23551.3	27952.9	31414.6	29896.0
65°	2322.2	2378.9	2871.5	3679.6	4462.8	6862.3	13284.1	23353.8	30100.4	33927.5	32132.0
67.5°	1657.1	1704.8	2122.5	2885.2	3230.2	3986.1	9005.1	20829.6	29791.6	34022.9	32252.2
70°	1187.3	1214.4	1559.5	2247.3	2567.4	2394.8	5007.6	15931.0	26084.7	31416.9	29796.1
72.5°	830.9	839.9	1082.8	1711.5	2067.9	1747.9	2383.5	10621.4	19728.7	24659.1	23099.6
75°	562.9	574.3	728.7	1255.3	1659.4	1334.8	1262.1	5695.4	11581.6	13649.5	12235.3
77.5°	345.0	349.6	469.9	858.0	1241.7	1017.0	812.6	2413.1	4481.0	4399.3	3750.1
80°	195.3	195.3	299.6	533.4	846.8	656.0	569.8	1026.0	1418.8	1246.2	1098.7
82.5°	109.0	111.2	217.9	331.4	560.7	388.2	313.2	474.5	612.9	542.5	472.1
85°	45.4	49.9	134.0	156.6	267.8	192.9	127.1	199.8	227.0	202.0	147.6
87.5°	4.5	6.8	40.9	29.5	31.8	38.5	18.1	38.5	31.8	31.8	22.7
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°	5223.3	5223.3	5223.3	5223.3	5223.3	5223.3	5223.3	5223.3	5223.3	5223.3	5223.3
2.5°	5257.3	5223.3	5137.0	5037.2	4905.4	4841.9	4755.7	4696.7	4646.7	4651.2	4605.8
5°	5359.5	5273.2	5080.3	4839.6	4540.0	4326.6	4099.6	3943.0	3815.9	3788.6	3727.3
7.5°	5500.3	5364.0	5025.8	4592.2	4086.1	3702.4	3359.6	3139.4	2982.7	2932.8	2882.9
10°	5681.8	5484.4	4955.5	4281.2	3552.5	3064.5	2696.8	2524.3	2417.6	2381.3	2354.0
12.5°	5892.9	5622.8	4862.4	3902.2	3003.2	2533.3	2299.5	2213.3	2179.3	2167.9	2161.0
15°	6158.5	5795.3	4721.7	3452.7	2537.9	2208.7	2108.8	2097.5	2102.1	2097.5	2095.2
17.5°	6474.1	5983.7	4492.4	2989.6	2224.6	2043.0	2006.6	2015.8	2027.1	2024.9	2020.3
20°	6819.1	6169.9	4199.5	2578.7	2011.3	1925.0	1904.6	1913.6	1922.7	1918.2	1915.9
22.5°	7211.8	6369.7	3874.9	2258.7	1868.3	1816.0	1793.3	1795.6	1795.6	1786.5	1782.0
25°	7681.7	6589.8	3534.4	2031.7	1759.2	1718.4	1691.1	1682.0	1668.5	1641.2	1636.7
27.5°	8242.4	6823.6	3207.5	1872.8	1673.0	1634.4	1602.6	1579.9	1545.9	1500.5	1495.9
30°	8873.4	7107.4	2930.6	1772.8	1604.9	1566.3	1530.0	1495.9	1446.0	1389.3	1384.7
32.5°	9615.7	7411.6	2728.5	1707.0	1543.6	1502.8	1459.6	1418.8	1364.3	1307.5	1309.7
35°	10501.0	7779.3	2610.5	1661.6	1495.9	1441.5	1393.8	1348.4	1307.5	1257.6	1253.1
37.5°	11461.2	8169.8	2574.2	1639.0	1464.1	1380.2	1325.7	1293.9	1289.3	1259.8	1257.6
40°	12512.3	8632.9	2601.4	1625.3	1430.1	1321.1	1262.1	1255.3	1266.7	1214.4	1216.7
42.5°	13624.6	9182.2	2646.9	1609.5	1382.4	1262.1	1205.4	1205.4	1196.3	1123.6	1123.6
45°	14827.6	9815.5	2692.3	1570.8	1325.7	1203.1	1160.0	1144.1	1105.5	1035.1	1032.9
47.5°	16039.9	10460.2	2726.3	1500.5	1257.6	1153.1	1114.6	1078.3	1021.5	958.0	955.7
50°	17190.8	11039.0	2690.0	1396.0	1180.4	1105.5	1064.7	1014.6	953.4	910.3	903.4
52.5°	18219.1	11540.7	2535.6	1273.5	1098.7	1055.5	1019.3	967.0	917.1	871.7	867.2
55°	19113.5	11947.1	2263.2	1157.7	1026.0	1012.4	976.1	910.3	842.1	803.6	799.1
57.5°	19971.5	12255.8	1922.7	1062.4	960.2	964.7	910.3	851.3	787.7	746.8	742.3
60°	21113.4	12668.9	1577.7	973.9	889.8	903.4	844.4	801.3	721.9	669.6	662.9
62.5°	22938.5	13311.4	1253.1	864.9	808.1	812.6	787.7	735.4	640.1	578.8	574.3
65°	24386.7	13075.2	987.5	746.8	715.0	721.9	721.9	665.1	562.9	492.6	485.7
67.5°	24223.2	11195.7	787.7	631.1	626.5	631.1	647.0	599.3	499.4	442.7	433.6
70°	22314.1	8905.2	631.1	524.4	544.8	533.4	578.8	547.0	449.5	392.7	385.9
72.5°	18207.7	6415.1	481.2	433.6	417.7	435.8	522.1	492.6	374.5	311.0	304.2
75°	10639.5	3423.2	358.6	342.8	301.9	363.2	463.1	419.9	286.0	229.3	222.4
77.5°	3464.0	1194.0	263.3	251.9	224.7	292.8	394.9	354.1	233.8	181.6	174.8
80°	928.4	360.9	179.4	165.7	145.2	217.9	313.2	281.5	168.0	118.1	115.7
82.5°	372.3	152.1	104.4	93.1	79.4	149.9	247.4	227.0	124.8	74.9	74.9
85°	120.3	49.9	38.5	29.5	36.3	93.1	147.6	154.4	88.6	38.5	29.5
87.5°	15.9	6.8	6.8	9.1	6.8	15.9	45.4	43.2	25.0	4.5	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)