

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: P971362

Luminaire Tested: **NAV-SB6D-727-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P971362  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6D-727-U-T3-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

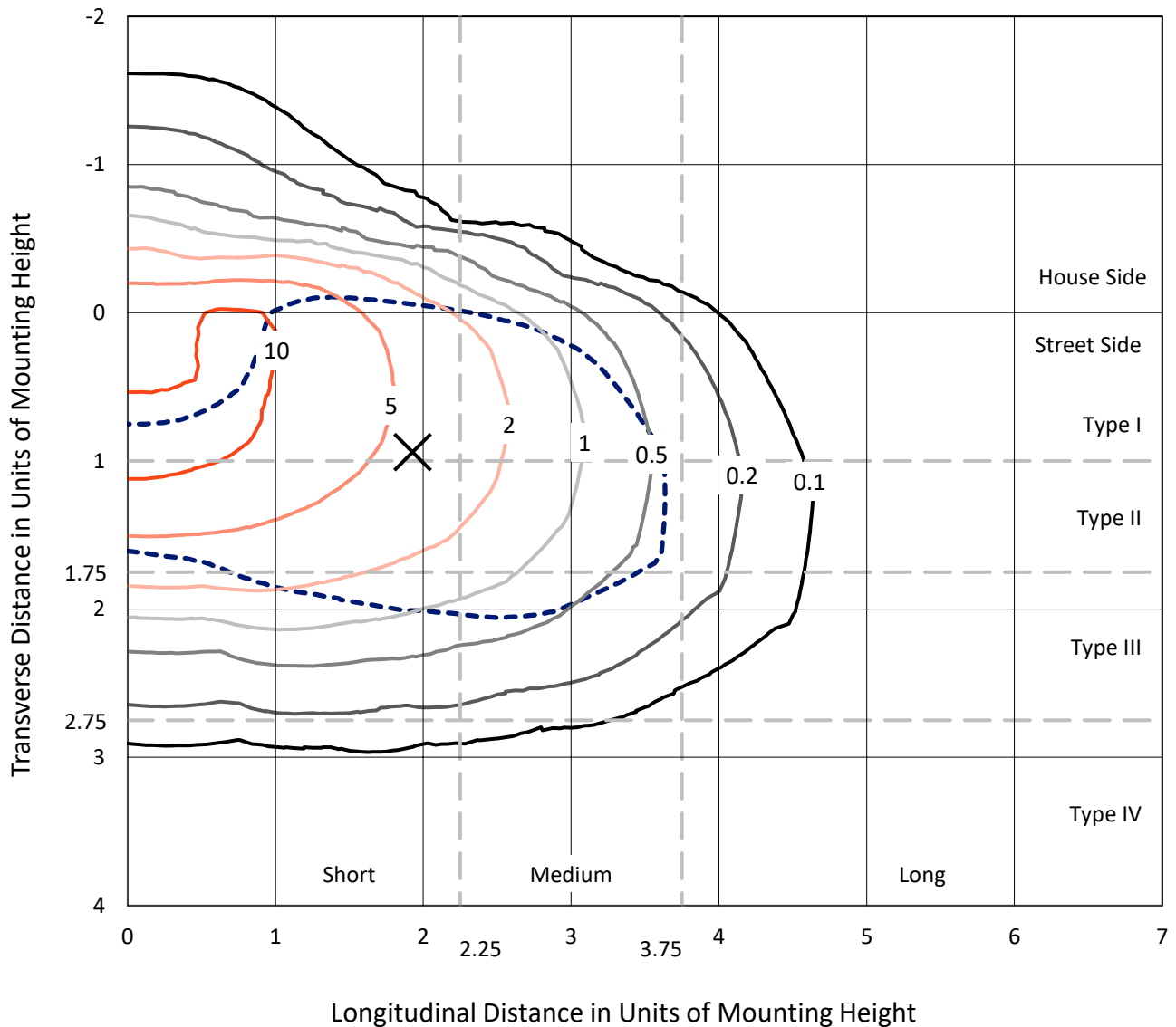
Lumens per Lamp: N/A  
Luminaire Lumens: 46011.2 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 440.1  
Input Voltage (V): NR  
Input Current (Ain): 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

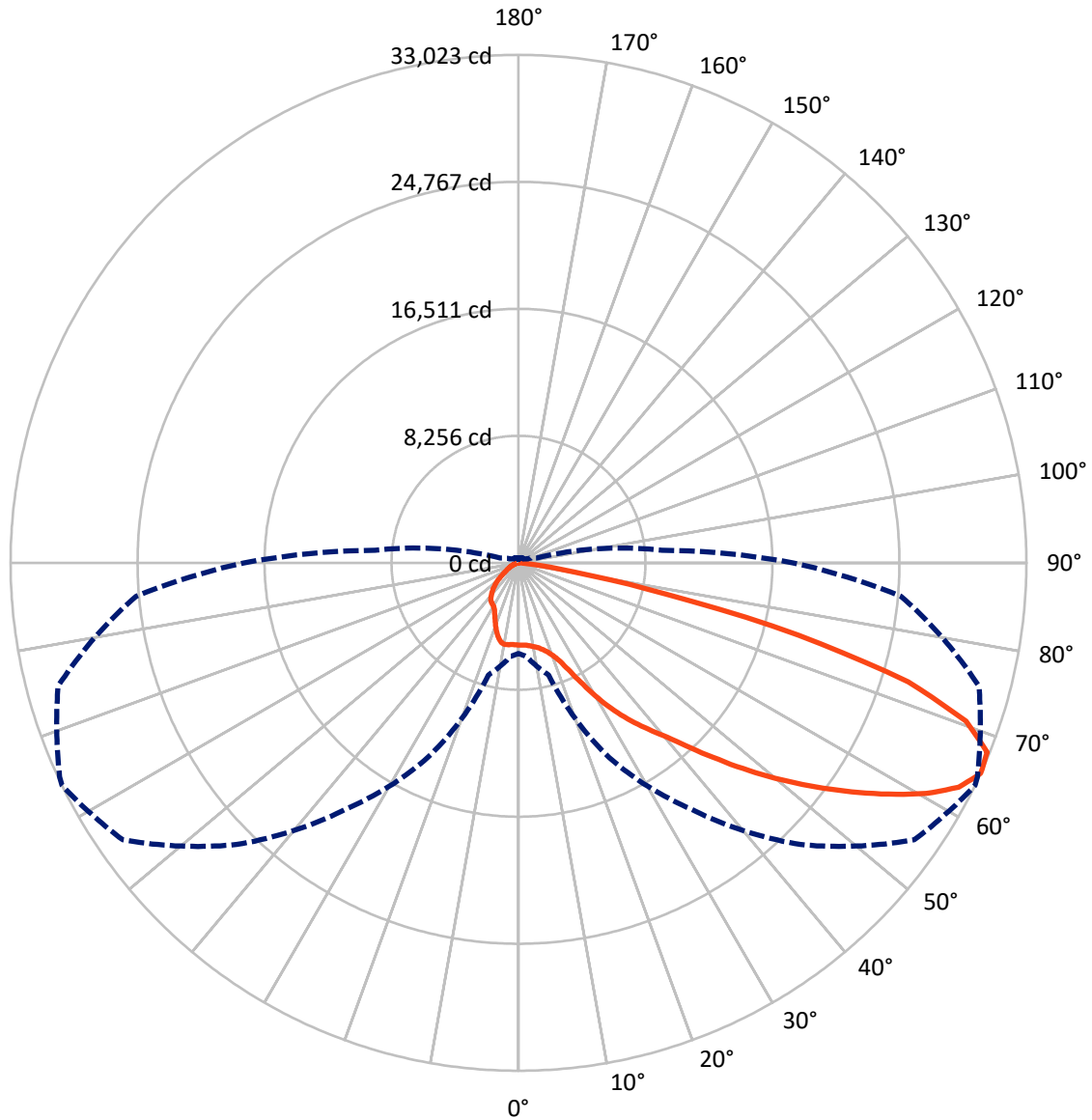
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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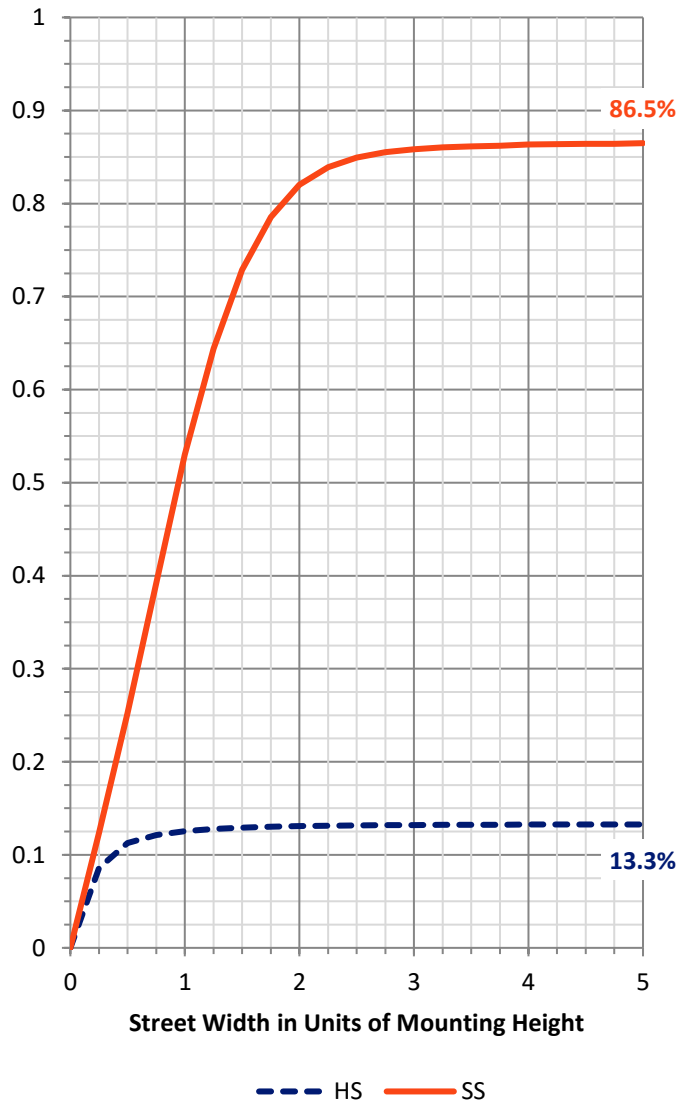
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6153.1	0.0	6153.1
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	39858.1	0.0	39858.1
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	46011.2	0.0	46011.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	493.7	1.1
10°-20°	1339.2	2.9
20°-30°	2537.6	5.5
30°-40°	5134.9	11.2
40°-50°	8747.3	19.0
50°-60°	11895.7	25.9
60°-70°	11170.6	24.3
70°-80°	4475.4	9.7
80°-90°	216.8	0.5
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°	46011.2	100.0
0°-180°	46011.2	100.0

**Coefficient of Utilization**



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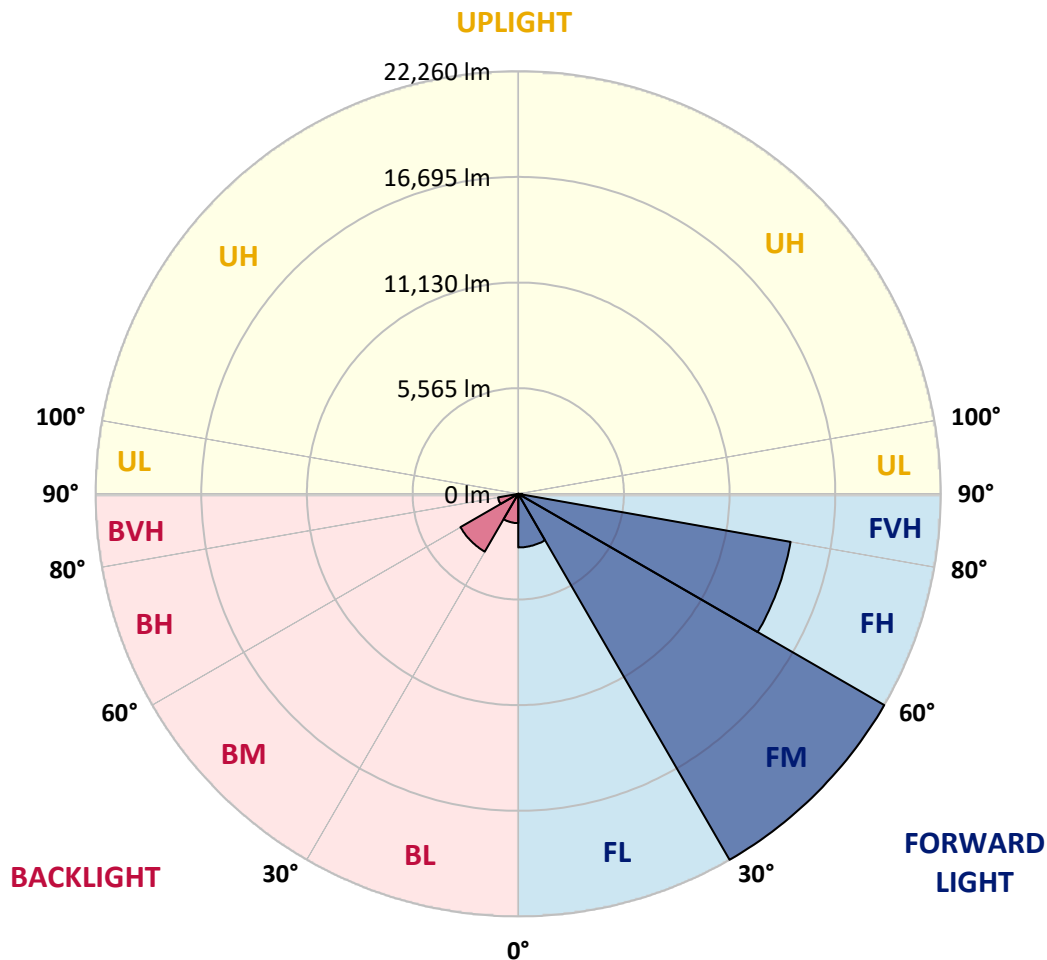
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2825.6	6.1			
FM (30°-60°)	22260.2	48.4			
FH (60°-80°)	14566.1	31.7			G5
FVH (80°-90°)	206.2	0.4			G2/225
BL (0°-30°)	1544.9	3.4	B3/2500		
BM (30°-60°)	3517.7	7.6	B3/5000		
BH (60°-80°)	1080.0	2.3	B3/2500		G3/2500
BVH (80°-90°)	10.6	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	5351.6	5351.6	5351.6	5351.6	5351.6	5351.6	5351.6	5351.6	5351.6	5351.6	5351.6
2.5°	5333.1	5370.1	5360.9	5351.6	5348.4	5354.7	5357.8	5354.7	5354.7	5354.7	5357.8
5°	5231.3	5262.1	5262.1	5283.8	5314.5	5351.6	5379.3	5385.6	5391.7	5400.9	5397.9
7.5°	5037.0	5061.7	5080.1	5151.1	5228.2	5326.9	5410.2	5453.4	5459.6	5493.5	5505.8
10°	4904.3	4935.2	4966.0	5040.0	5151.1	5299.1	5441.0	5545.9	5561.3	5641.5	5678.5
12.5°	4898.2	4929.0	4969.1	5049.3	5178.8	5336.2	5508.9	5660.0	5687.8	5805.0	5882.1
15°	4962.9	5000.0	5037.0	5135.7	5274.4	5465.7	5650.8	5838.9	5866.7	6033.3	6116.6
17.5°	5095.6	5144.9	5172.7	5271.4	5419.5	5632.3	5875.9	6091.9	6116.6	6310.8	6415.7
20°	5357.8	5416.4	5425.6	5505.8	5650.8	5879.0	6169.0	6437.3	6468.2	6690.3	6807.4
22.5°	5900.6	5984.0	5909.8	5950.0	6079.5	6307.7	6622.4	6961.7	7004.8	7257.8	7362.7
25°	6856.8	6974.0	6782.8	6714.9	6770.4	7007.9	7402.8	7831.5	7880.8	8084.5	8136.9
27.5°	8735.3	8584.2	8294.2	8010.4	7843.8	7979.5	8423.8	8954.3	9016.0	9213.3	9151.7
30°	10798.8	10666.2	10274.4	9645.1	9250.4	9228.8	9639.0	10231.2	10302.2	10490.4	10302.2
32.5°	12865.4	12738.9	12313.2	11539.0	10854.3	10515.0	10798.8	11455.8	11492.8	11613.0	11335.5
35°	14898.1	14768.5	14342.8	13550.2	12708.1	11936.9	11881.4	12621.7	12634.0	12760.5	12347.2
37.5°	16943.0	16835.1	16381.8	15604.4	14774.7	13710.5	13195.4	13726.0	13741.4	13864.8	13436.0
40°	18402.0	18448.4	18136.8	17535.3	16822.8	15660.0	14669.8	14901.1	14808.6	15015.3	14759.3
42.5°	19654.4	19746.8	19475.4	19173.1	18759.9	17735.8	16495.8	16455.8	16307.6	16418.8	16153.5
45°	20737.0	20814.2	20570.4	20499.5	20490.3	19771.5	18491.5	18250.9	18044.2	18022.7	17704.9
47.5°	21134.9	21283.0	21387.9	21625.3	22088.0	21785.8	20555.0	20181.8	19950.5	19780.9	19278.0
50°	21286.1	21443.3	21801.1	22492.1	23587.1	23716.7	22609.2	22189.8	21906.0	21597.6	20857.3
52.5°	21082.5	21363.2	21844.3	23007.1	24595.7	25265.0	24580.3	24213.2	23889.4	23386.6	22288.5
55°	19882.6	20163.3	21147.2	23001.0	25098.5	26350.8	26443.3	26279.8	25915.9	25123.2	23445.1
57.5°	17353.4	17769.7	19327.4	22217.6	25089.2	27285.4	28269.3	28386.6	27979.3	26844.2	24355.1
60°	13849.4	14413.8	16313.8	20481.0	24315.0	27791.2	29870.1	30456.2	30024.4	28540.7	25092.3
62.5°	9663.7	10317.6	12115.9	17760.5	22544.5	27427.3	31039.2	32121.9	31794.9	30058.3	25376.0
65°	5894.5	6104.2	7553.9	13975.8	19534.0	25903.5	31400.1	33022.5	32914.6	30986.8	24956.6
67.5°	3926.6	4102.4	4518.8	9583.5	15163.3	22859.1	30536.4	32865.2	32896.0	30835.6	23420.5
70°	2365.8	2517.0	2788.4	5573.6	9827.2	18093.6	27862.2	30860.3	31039.2	28815.3	20508.7
72.5°	974.7	1076.5	1323.3	2526.2	5089.4	11483.6	22186.7	26495.7	26912.1	24228.6	15740.1
75°	552.2	604.5	777.3	1267.7	2208.5	5351.6	13439.1	18809.2	19423.0	16699.4	9469.4
77.5°	367.1	391.8	502.8	820.5	1243.0	1826.0	5743.3	9799.4	10971.5	9120.9	4099.3
80°	246.7	268.3	345.4	549.0	808.1	783.5	1829.1	3630.4	4466.3	3133.8	999.4
82.5°	166.6	169.6	246.7	360.9	512.0	379.4	539.8	1128.9	1418.9	906.8	379.4
85°	95.6	92.6	181.9	209.7	228.3	157.3	163.5	339.3	444.1	382.4	215.9
87.5°	12.3	18.6	70.9	55.6	30.9	33.9	33.9	58.6	86.4	92.6	46.2
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°	5351.6	5351.6	5351.6	5351.6	5351.6	5351.6	5351.6	5351.6	5351.6	5351.6	5351.6
2.5°	5357.8	5354.7	5345.4	5336.2	5314.5	5302.2	5308.4	5302.2	5299.1	5302.2	5314.5
5°	5397.9	5388.6	5363.9	5333.1	5289.9	5237.4	5203.5	5154.2	5107.9	5080.1	5086.4
7.5°	5505.8	5496.6	5462.6	5376.2	5237.4	5018.5	4818.0	4642.1	4509.5	4432.4	4435.5
10°	5678.5	5663.1	5610.6	5419.5	5055.5	4577.3	4179.4	3849.4	3633.5	3531.7	3522.5
12.5°	5882.1	5863.6	5771.1	5379.3	4710.0	3963.6	3414.5	3047.4	2846.9	2757.6	2748.2
15°	6122.7	6098.0	5916.1	5188.1	4207.2	3285.0	2782.2	2507.7	2378.1	2297.9	2301.0
17.5°	6421.9	6378.7	6024.0	4901.2	3661.3	2766.8	2393.6	2186.9	2072.8	1995.7	1989.5
20°	6810.5	6739.6	6110.3	4558.9	3158.5	2439.8	2131.4	1958.7	1872.3	1804.4	1792.1
22.5°	7353.5	7251.7	6215.2	4188.8	2803.8	2214.6	1937.0	1810.6	1739.6	1662.6	1650.2
25°	8025.9	7905.5	6344.7	3846.3	2560.1	2020.4	1795.2	1690.3	1607.0	1517.6	1508.3
27.5°	8966.6	8750.7	6499.0	3565.7	2350.4	1853.8	1665.6	1548.4	1452.8	1378.7	1363.4
30°	10015.3	9660.6	6634.7	3396.0	2159.2	1699.6	1496.0	1378.7	1289.3	1236.9	1227.6
32.5°	11008.5	10527.4	6724.2	3322.0	1986.4	1523.8	1310.9	1184.5	1116.6	1101.2	1110.4
35°	11946.2	11310.8	6714.9	3251.1	1832.2	1347.9	1128.9	999.4	946.9	956.2	956.2
37.5°	13025.8	12146.7	6650.2	3140.0	1705.7	1187.6	971.6	857.5	811.2	814.3	826.7
40°	14281.1	13112.1	6610.0	2930.3	1566.9	1039.5	842.0	749.5	715.6	703.3	700.2
42.5°	15619.9	14046.7	6616.3	2692.8	1394.2	906.8	752.7	675.5	644.6	635.4	632.3
45°	16964.7	14938.1	6625.5	2446.0	1212.2	805.0	687.9	623.1	604.5	592.2	592.2
47.5°	18229.3	15697.0	6452.8	2180.7	1033.3	728.0	635.4	592.2	576.8	561.4	561.4
50°	19407.6	16202.8	6036.3	1872.3	891.4	666.2	595.3	564.5	549.0	533.6	533.6
52.5°	20323.7	16283.0	5348.4	1554.6	792.7	620.0	570.6	542.8	524.4	508.9	505.8
55°	20730.8	15780.2	4370.7	1258.5	715.6	579.8	545.9	518.2	496.6	481.1	478.1
57.5°	20626.0	14722.3	3408.3	1011.7	641.5	539.8	515.1	496.6	471.9	447.2	444.1
60°	20110.8	13306.4	2569.4	842.0	573.7	496.6	481.1	465.8	431.8	394.8	388.7
62.5°	19219.5	11526.7	1832.2	697.1	499.7	447.2	441.1	428.8	379.4	311.5	305.3
65°	17856.1	9364.5	1233.8	579.8	428.8	391.8	394.8	373.2	308.4	231.3	225.2
67.5°	15863.5	6847.5	789.7	475.0	357.8	327.0	330.0	317.8	262.2	197.4	188.2
70°	13325.0	4534.2	515.1	360.9	286.9	253.0	271.4	274.5	222.1	160.4	154.3
72.5°	9768.6	2677.3	360.9	268.3	209.7	175.8	222.1	228.3	178.9	120.3	114.1
75°	5567.5	1270.8	271.4	194.3	129.6	123.4	172.7	172.7	123.4	80.2	74.0
77.5°	2338.0	530.5	191.3	126.5	74.0	70.9	117.3	107.9	61.7	37.0	37.0
80°	675.5	237.5	101.8	61.7	30.9	27.8	46.2	33.9	15.4	6.1	6.1
82.5°	265.3	104.9	40.1	24.7	12.3	12.3	6.1	0.0	0.0	0.0	0.0
85°	157.3	43.2	18.6	9.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	40.1	9.2	6.1	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)