

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: P969207

Luminaire Tested: **NAV-SB5D-722-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P969207  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB5D-722-U-SL2  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43262.2 lumens  
Efficiency: N/A  
Efficacy: 118.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5

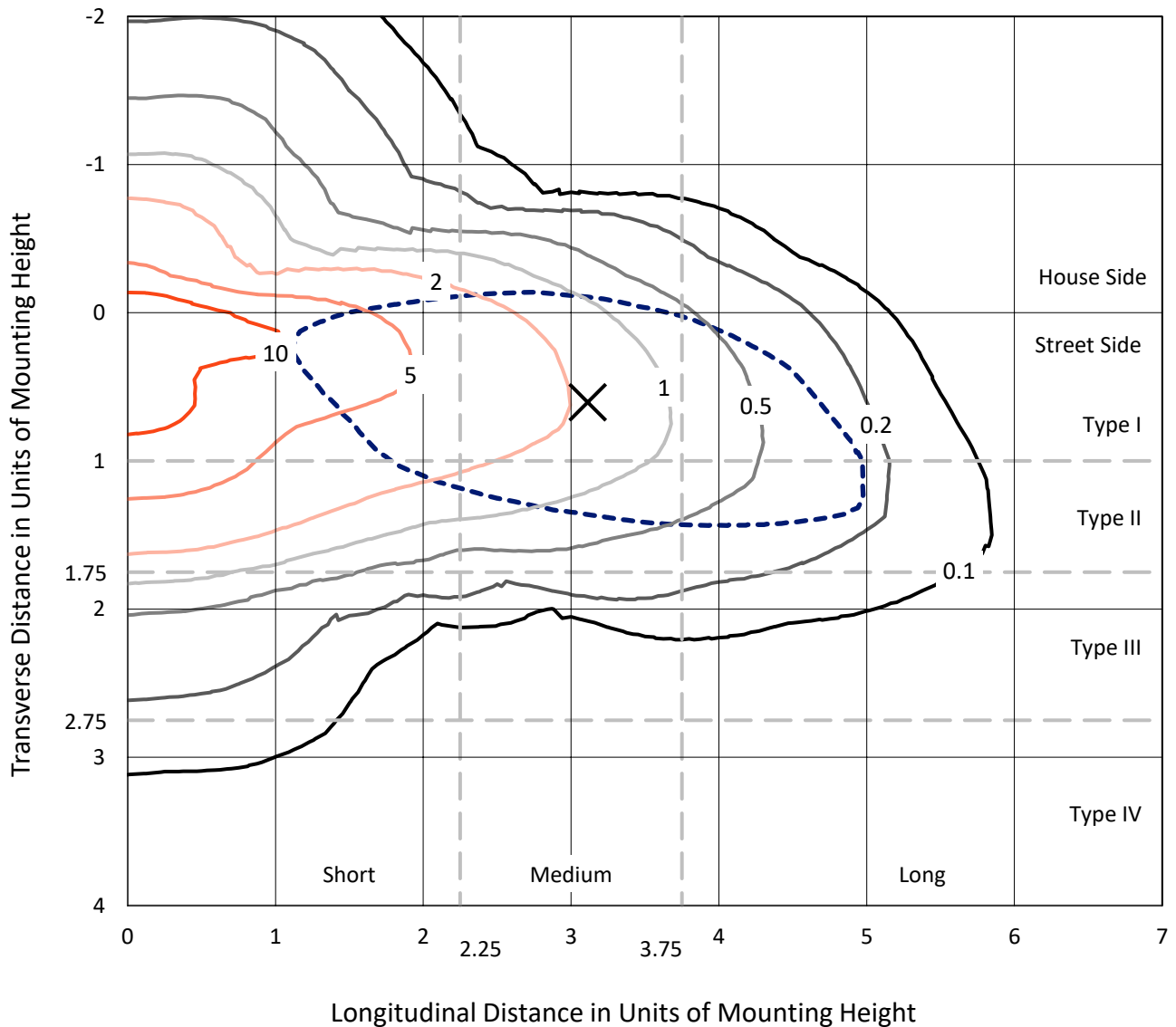
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

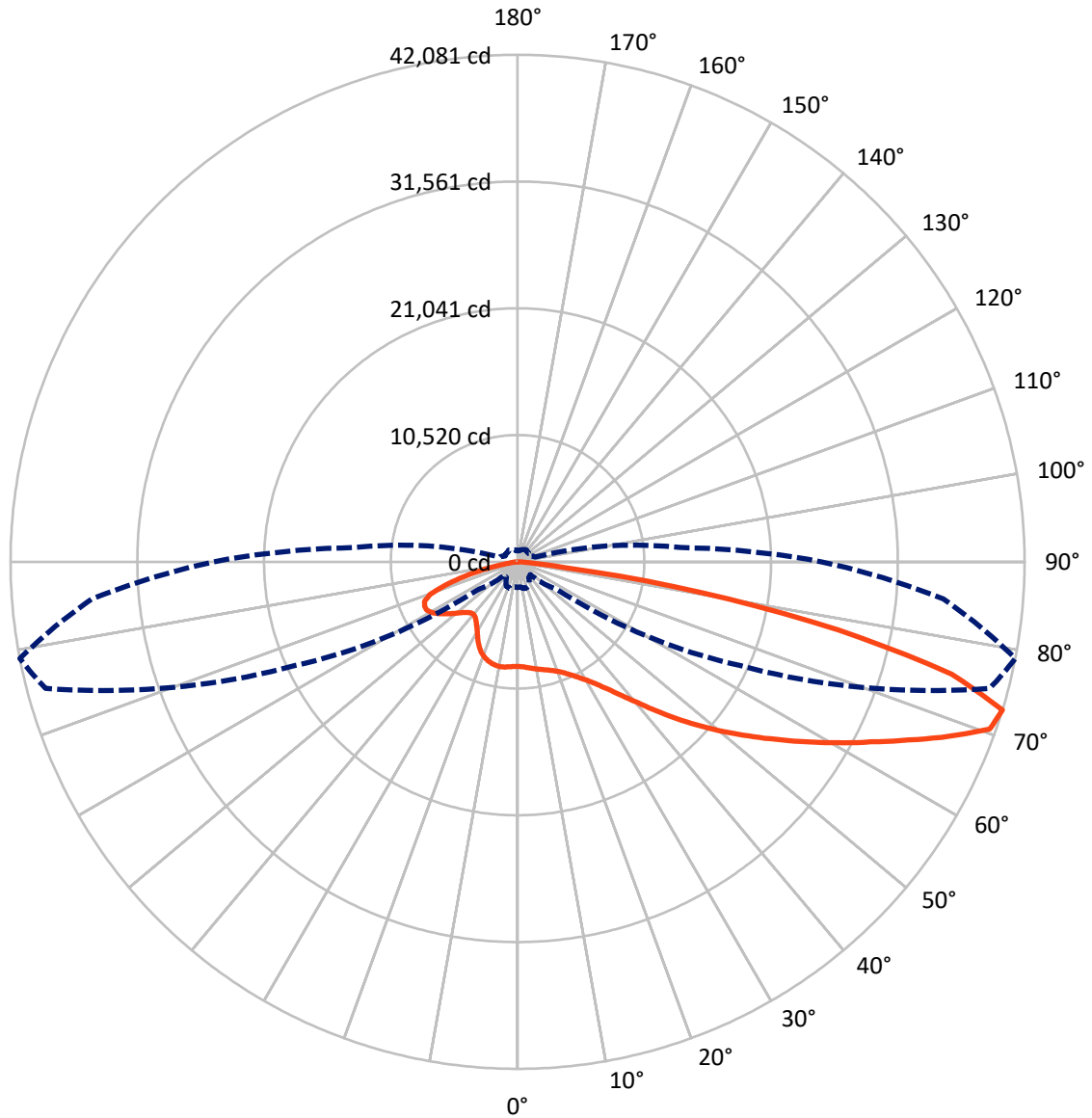
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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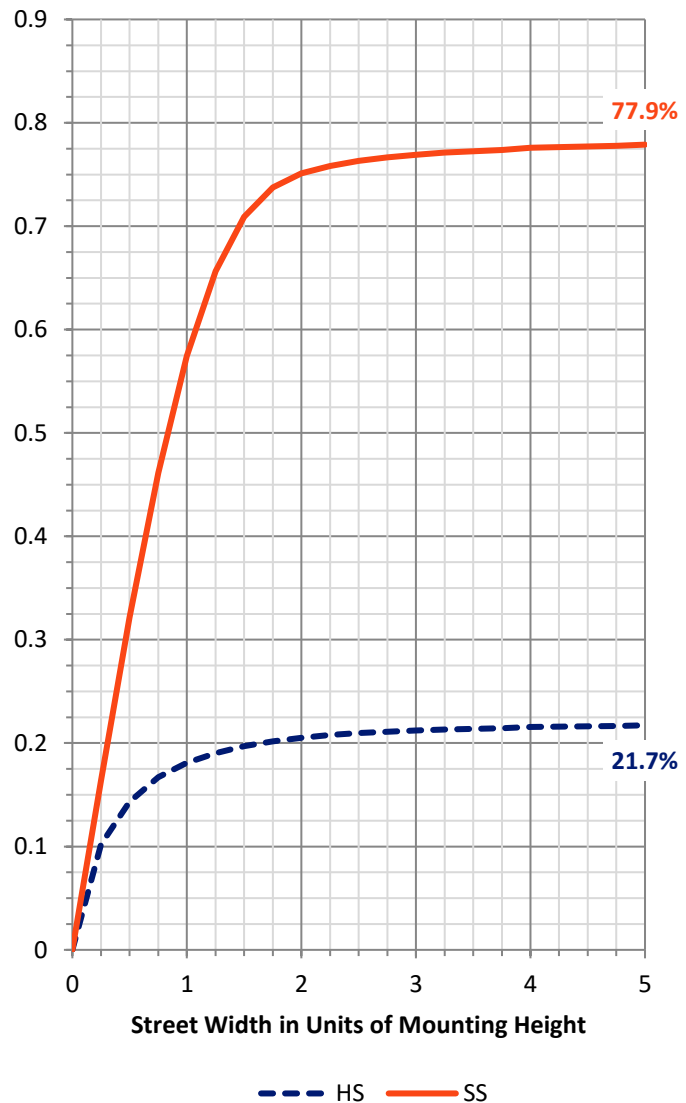
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9520.0	0.0	9520.0
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	33742.1	0.0	33742.1
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	43262.2	0.0	43262.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	788.3	1.8
10°-20°	2061.0	4.8
20°-30°	3325.6	7.7
30°-40°	4991.3	11.5
40°-50°	7080.4	16.4
50°-60°	8941.6	20.7
60°-70°	9081.4	21.0
70°-80°	6189.4	14.3
80°-90°	803.0	1.9
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°	43262.2	100.0
0°-180°	43262.2	100.0

**Coefficient of Utilization**



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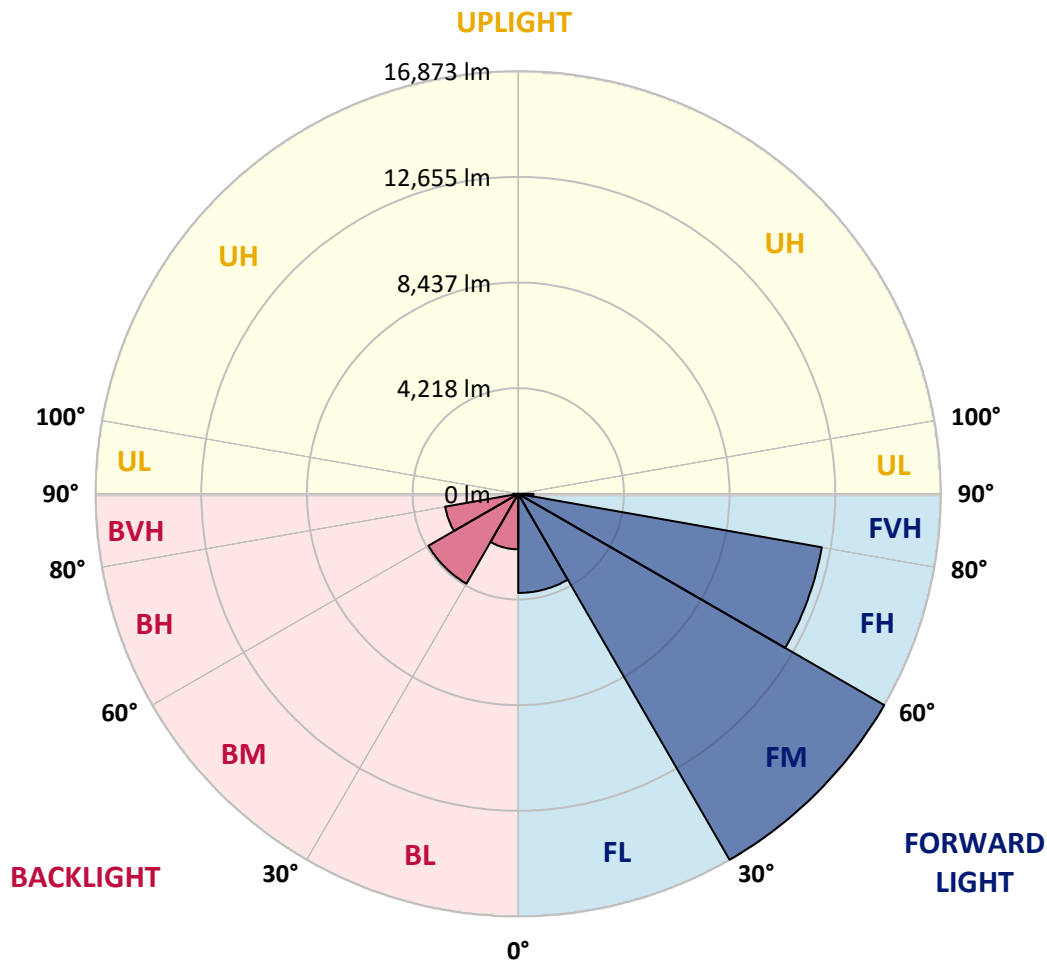
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3957.4	9.1			
FM (30°-60°)	16873.1	39.0			
FH (60°-80°)	12306.6	28.4			G5
FVH (80°-90°)	604.9	1.4			G4/750
BL (0°-30°)	2217.5	5.1	B3/2500		
BM (30°-60°)	4140.2	9.6	B3/5000		
BH (60°-80°)	2964.2	6.9	B4/5000		G4/5000
BVH (80°-90°)	198.1	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	8684.5	8684.5	8684.5	8684.5	8684.5	8684.5	8684.5	8684.5	8684.5	8684.5	8684.5
2.5°	8689.0	8647.8	8673.0	8663.9	8675.3	8689.0	8693.6	8700.5	8723.4	8721.1	8718.8
5°	8670.8	8629.6	8663.9	8652.4	8682.2	8714.2	8741.7	8766.8	8803.4	8819.5	8796.7
7.5°	8631.8	8604.4	8638.7	8673.0	8728.0	8776.0	8814.9	8872.1	8924.8	8933.9	8949.9
10°	8405.3	8384.7	8464.8	8554.0	8705.0	8835.5	8920.2	8986.6	9043.8	9052.9	9075.8
12.5°	8169.6	8144.4	8233.6	8355.0	8599.8	8835.5	9014.0	9101.0	9151.3	9181.0	9215.4
15°	8130.7	8110.1	8160.4	8265.7	8469.4	8773.7	9078.1	9238.2	9281.8	9316.0	9329.8
17.5°	8318.3	8279.4	8300.0	8336.6	8455.6	8716.5	9128.4	9393.9	9460.2	9496.8	9496.8
20°	8753.1	8698.2	8666.2	8593.0	8572.4	8725.6	9123.8	9581.5	9668.5	9714.2	9725.7
22.5°	9332.1	9295.5	9226.8	9041.4	8840.1	8837.8	9210.8	9821.8	9984.3	10027.8	10000.3
25°	10032.3	9977.5	9890.4	9638.7	9252.0	9059.8	9357.2	10128.4	10400.8	10412.3	10332.1
27.5°	10837.8	10755.4	10636.4	10304.6	9782.9	9407.7	9581.5	10480.8	10879.0	10874.4	10709.7
30°	11686.8	11604.4	11478.6	11075.8	10419.1	9876.7	9892.8	10860.7	11446.6	11421.4	11139.9
32.5°	12307.0	12245.3	12220.0	11908.9	11151.4	10430.5	10249.7	11281.8	12146.9	12123.9	11730.3
35°	12783.0	12702.9	12732.7	12574.7	11950.1	11050.6	10686.9	11783.0	12998.1	12995.8	12506.1
37.5°	13254.4	13183.4	13208.7	13103.4	12689.2	11837.9	11220.1	12396.2	14053.1	14103.4	13444.3
40°	13684.6	13609.1	13709.8	13611.4	13263.6	12675.5	11826.4	13089.7	15275.1	15371.2	14579.4
42.5°	13943.2	13883.7	14050.8	14053.1	13762.5	13382.5	12492.4	13854.0	16689.3	16904.4	15975.3
45°	14032.5	14011.9	14263.6	14316.2	14204.0	13792.2	13091.9	14686.9	18213.3	18597.8	17565.7
47.5°	13936.3	13897.5	14245.2	14439.8	14529.1	13984.4	13588.5	15588.6	19769.5	20332.4	19300.3
50°	13451.2	13375.6	13892.8	14302.4	14620.6	14110.3	14089.6	16629.8	21538.4	22153.9	21044.1
52.5°	12579.3	12522.1	13110.3	13821.9	14419.2	14172.1	14652.6	17767.1	23218.1	24014.4	22831.4
55°	11464.8	11389.4	12037.0	12966.0	13918.1	14151.5	15215.5	19039.5	25199.8	26007.6	24678.1
57.5°	9698.2	9547.2	10366.4	11464.8	13101.0	14126.2	15801.4	20304.9	27213.6	28181.7	26648.4
60°	7121.5	6897.2	7901.8	9204.0	11503.8	13881.5	16526.8	21723.7	29630.2	30502.1	28799.5
62.5°	4146.5	4016.2	4672.9	5888.0	8670.8	12439.7	16934.1	23373.7	32005.5	32920.8	30914.0
65°	3219.7	3183.1	3240.3	3334.2	4826.2	9313.8	15677.8	24982.4	35026.2	35666.9	33117.6
67.5°	2945.1	2917.7	2942.9	2766.7	2448.6	5187.8	12403.1	25389.8	38262.0	38651.0	35046.8
70°	2618.0	2585.9	2668.3	2517.2	1926.8	2359.3	8014.0	23911.5	40836.5	41566.4	36513.7
72.5°	2132.8	2096.1	2288.4	2219.7	1622.5	1514.9	4025.3	20398.7	40566.4	42081.4	35463.3
75°	1638.5	1617.9	1846.7	1903.9	1322.7	1192.3	1931.4	15162.9	35699.0	37225.3	30563.9
77.5°	1272.3	1256.3	1373.1	1581.3	1066.4	924.6	1187.7	9618.1	26902.5	27170.2	21062.4
80°	954.3	908.5	1016.1	1224.3	830.7	675.1	805.5	5608.9	17005.1	15414.7	9167.3
82.5°	597.3	574.4	663.6	816.9	585.8	464.5	524.1	3098.5	6814.8	4013.9	1768.9
85°	341.0	331.8	361.5	466.8	318.1	267.7	299.8	1368.5	1244.9	855.9	533.2
87.5°	137.4	132.7	164.7	208.3	116.7	98.4	105.3	329.5	274.6	254.0	176.2
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°	8684.5	8684.5	8684.5	8684.5	8684.5	8684.5	8684.5	8684.5	8684.5	8684.5	8684.5
2.5°	8709.6	8709.6	8677.6	8627.2	8570.0	8533.4	8474.0	8457.9	8396.1	8377.8	8407.6
5°	8814.9	8796.7	8698.2	8556.3	8361.8	8183.3	7986.5	7863.0	7689.0	7627.2	7673.0
7.5°	8947.6	8897.3	8728.0	8416.7	8009.4	7608.9	7192.4	6876.6	6574.6	6467.0	6480.8
10°	9068.9	8998.0	8709.6	8165.0	7460.2	6766.7	6103.2	5638.6	5286.2	5142.0	5174.1
12.5°	9190.3	9059.8	8588.4	7746.2	6679.8	5739.3	5032.2	4670.6	4453.2	4279.3	4336.5
15°	9304.6	9121.6	8400.7	7185.6	5823.9	4869.7	4347.9	4059.6	3885.7	3771.3	3791.9
17.5°	9437.4	9174.2	8119.2	6473.9	5009.3	4267.9	3842.2	3668.3	3633.9	3620.2	3629.4
20°	9622.7	9222.2	7748.5	5677.5	4409.8	3787.3	3567.6	3551.6	3549.3	3542.4	3565.4
22.5°	9821.8	9279.4	7258.8	4954.3	3899.4	3487.6	3448.6	3416.5	3396.0	3393.7	3418.9
25°	10057.5	9297.8	6645.5	4361.7	3464.6	3345.6	3299.9	3251.8	3238.1	3238.1	3251.8
27.5°	10286.4	9236.0	5931.6	3846.8	3219.7	3215.2	3155.7	3139.7	3137.4	3144.3	3162.5
30°	10515.2	9119.2	5222.2	3370.8	3077.9	3077.9	3057.3	3068.7	3077.9	3100.8	3116.8
32.5°	10824.1	8995.7	4629.4	3018.4	2954.4	2931.4	2952.0	2975.0	2984.1	3013.8	3039.0
35°	11277.3	8908.7	4158.0	2826.1	2826.1	2796.4	2807.9	2803.3	2782.7	2768.9	2801.0
37.5°	11876.8	8904.2	3769.0	2737.0	2718.6	2714.0	2716.4	2686.6	2606.5	2510.3	2512.7
40°	12597.7	9027.7	3469.2	2675.1	2661.4	2688.9	2675.1	2595.0	2375.3	2208.3	2203.8
42.5°	13565.7	9380.2	3277.0	2599.6	2640.8	2675.1	2620.2	2343.4	2194.5	2082.5	2077.9
45°	14705.3	9952.2	3178.6	2519.6	2601.9	2643.1	2377.7	2256.3	2137.3	2002.3	1993.2
47.5°	15995.9	10673.1	3155.7	2444.0	2514.9	2540.2	2274.7	2219.7	2084.7	1938.3	1926.8
50°	17401.0	11526.6	3217.5	2354.7	2389.1	2302.1	2240.3	2190.0	2050.4	1906.2	1890.2
52.5°	18854.2	12467.2	3341.1	2233.5	2263.2	2167.2	2226.6	2183.1	2029.8	1835.3	1821.5
55°	20282.1	13414.6	3460.1	2091.6	2135.1	2045.8	2187.7	2155.7	1936.0	1716.3	1704.9
57.5°	21732.9	14357.4	3576.7	1965.7	2011.5	1929.2	2126.0	2082.5	1830.8	1606.5	1601.9
60°	23241.0	15272.8	3631.7	1844.5	1876.5	1821.5	2032.1	1956.6	1711.7	1494.3	1487.5
62.5°	24652.9	16034.8	3542.4	1723.1	1743.7	1720.9	1908.5	1807.8	1592.7	1368.5	1366.2
65°	26069.4	16487.9	3267.8	1604.1	1608.7	1597.3	1734.6	1647.7	1453.1	1258.6	1244.9
67.5°	27353.3	16741.9	2830.7	1476.0	1464.6	1460.0	1572.1	1473.7	1318.1	1148.8	1135.1
70°	27625.5	16096.6	2162.5	1325.0	1325.0	1313.5	1393.6	1292.9	1169.4	1032.1	1027.5
72.5°	25231.9	13540.5	1535.6	1153.3	1171.7	1148.8	1215.1	1130.5	1018.3	926.8	899.3
75°	20346.1	9929.4	1116.7	977.1	1009.2	970.3	1032.1	972.5	876.5	874.1	787.2
77.5°	13979.9	6139.7	810.1	805.5	828.4	778.1	849.0	816.9	730.0	691.1	647.6
80°	5965.8	2448.6	590.4	622.5	622.5	576.7	659.1	668.2	592.7	574.4	574.4
82.5°	1187.7	695.7	414.2	427.9	402.7	389.0	466.8	517.2	714.0	794.1	796.3
85°	357.0	256.2	249.5	233.4	205.9	208.3	274.6	519.5	640.7	366.1	315.8
87.5°	98.4	64.1	66.3	52.6	43.5	57.2	93.8	393.6	215.1	91.5	77.8
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)