

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: P965002

Luminaire Tested: **NAV-SB3D-722-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P965002  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB3D-722-U-T2R-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21888.9 lumens  
Efficiency: N/A  
Efficacy: 100.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3

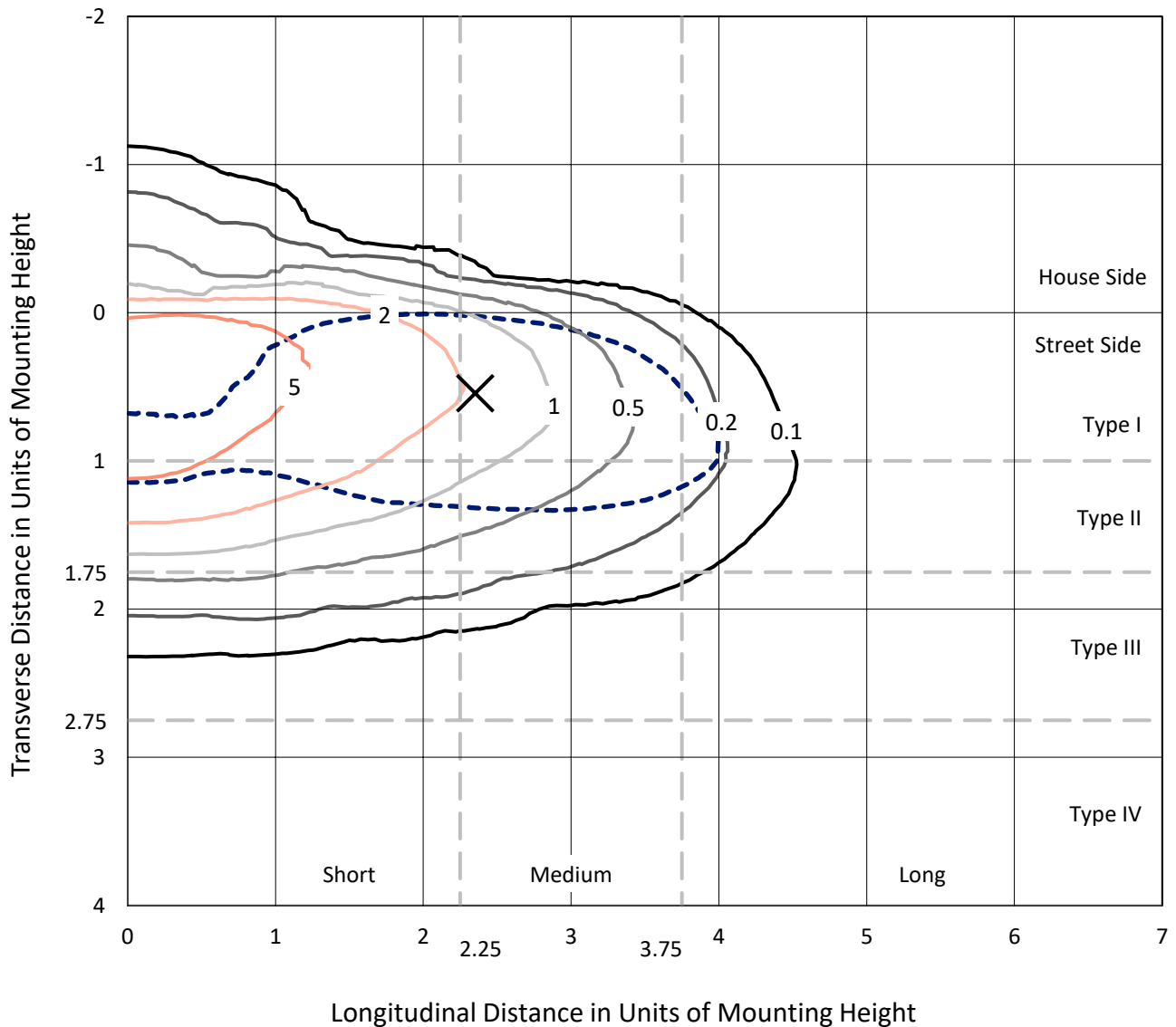
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

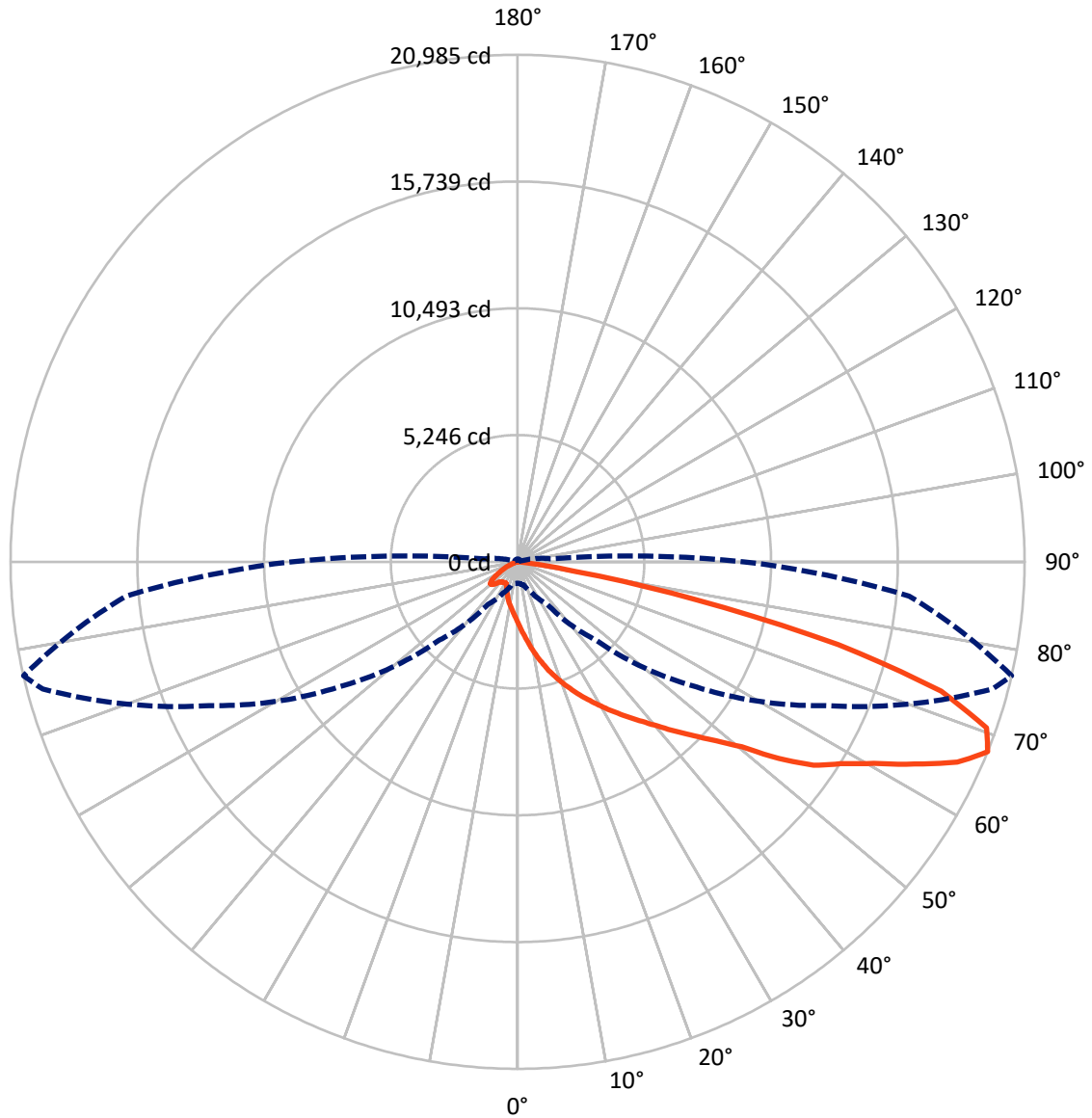
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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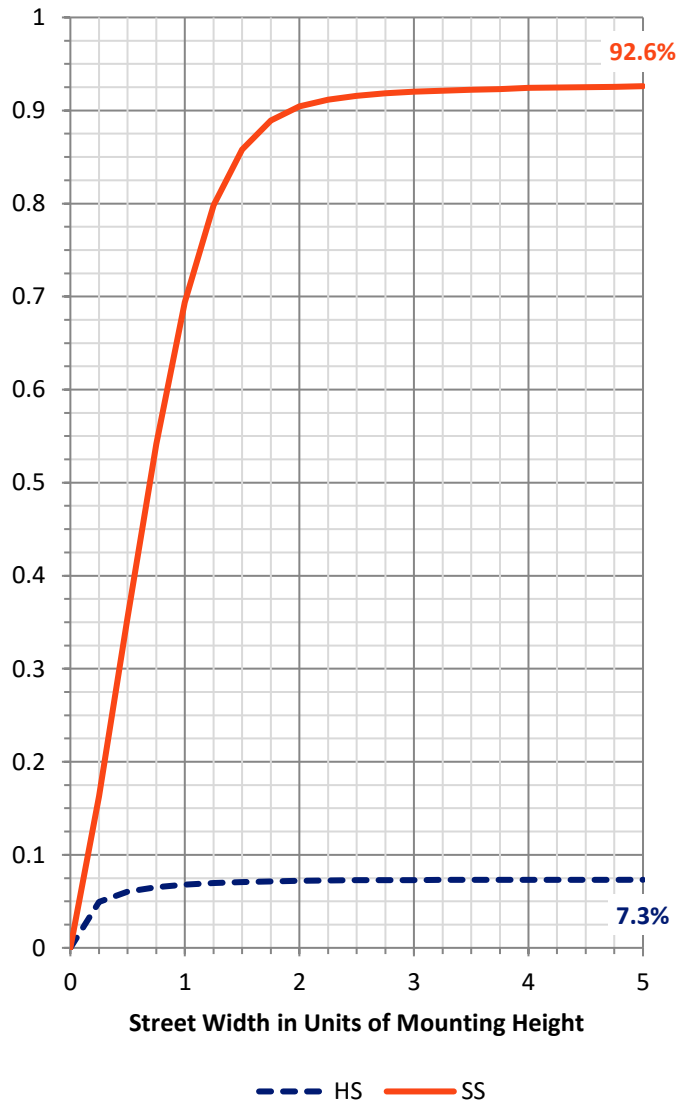
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1610.4	0.0	1610.4
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	20278.5	0.0	20278.5
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	21888.9	0.0	21888.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	257.6	1.2
10°-20°	902.2	4.1
20°-30°	1741.0	8.0
30°-40°	3022.4	13.8
40°-50°	4388.4	20.0
50°-60°	5039.5	23.0
60°-70°	4375.2	20.0
70°-80°	2060.8	9.4
80°-90°	101.9	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°	21888.9	100.0
0°-180°	21888.9	100.0

**Coefficient of Utilization**

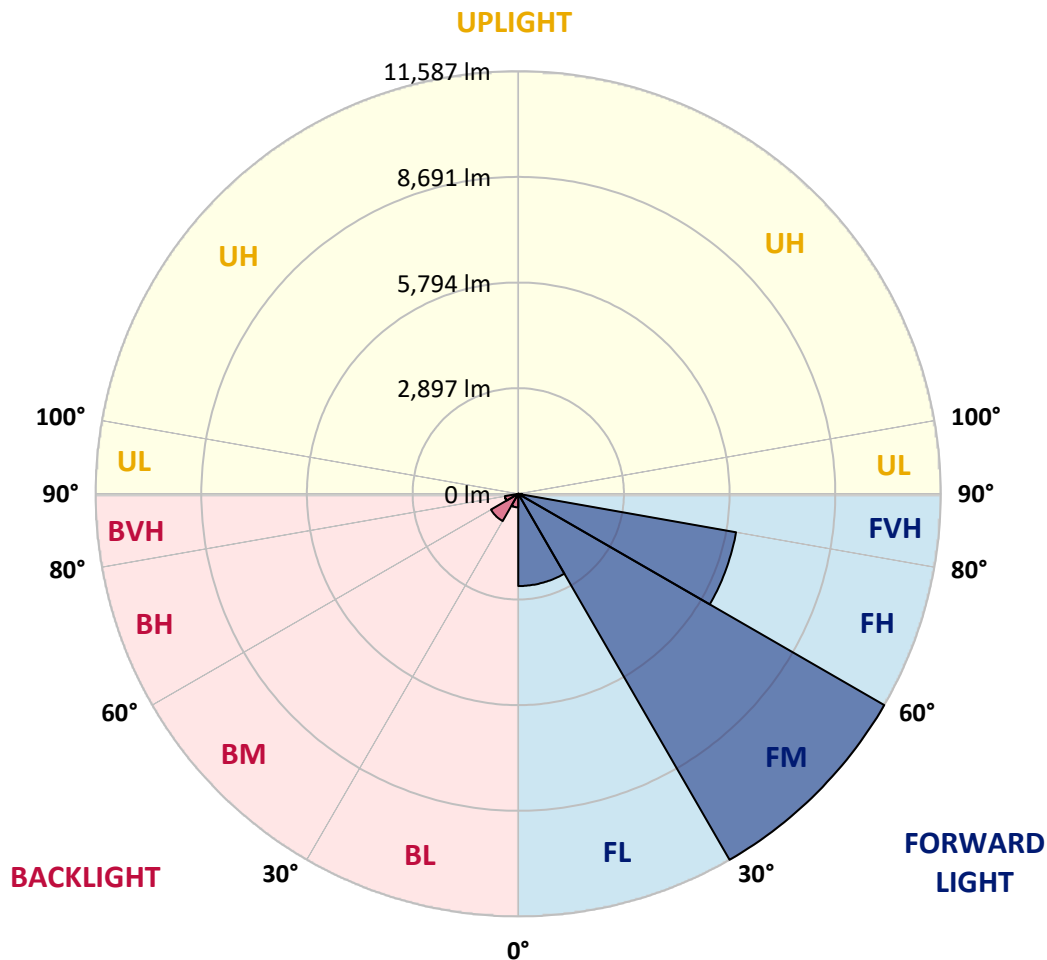


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2527.9	11.5			
FM (30°-60°)	11587.4	52.9			
FH (60°-80°)	6063.2	27.7			G3/7500
FVH (80°-90°)	100.0	0.5			G2/225
BL (0°-30°)	372.8	1.7	B1/500		
BM (30°-60°)	862.9	3.9	B1/1000		
BH (60°-80°)	372.8	1.7	B1/500		G1/500
BVH (80°-90°)	1.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**  
 Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2524.1	2524.1	2524.1	2524.1	2524.1	2524.1	2524.1	2524.1	2524.1	2524.1	2524.1
2.5°	3494.6	3516.4	3485.1	3425.2	3335.6	3277.1	3134.4	2999.9	2850.3	2802.8	2653.2
5°	4259.9	4278.9	4243.5	4178.3	4058.7	3944.5	3756.9	3475.6	3183.3	3089.6	2824.5
7.5°	4826.6	4837.5	4824.0	4764.1	4649.9	4520.9	4311.6	3978.5	3544.9	3441.6	3035.2
10°	5234.5	5269.7	5265.7	5242.6	5166.5	5061.9	4838.9	4459.7	3949.9	3816.8	3273.0
12.5°	5505.0	5544.3	5567.5	5619.0	5615.1	5548.4	5352.7	4951.7	4353.7	4197.4	3540.9
15°	5583.8	5625.9	5714.3	5833.9	5939.9	5973.9	5836.6	5434.2	4798.1	4598.4	3815.4
17.5°	5538.9	5604.2	5710.2	5899.1	6131.5	6285.1	6270.1	5900.4	5201.8	4973.5	4084.5
20°	5638.1	5700.6	5783.6	5942.6	6213.0	6491.7	6603.2	6346.3	5602.8	5363.5	4367.2
22.5°	6187.3	6176.3	6184.5	6210.4	6372.1	6648.0	6877.7	6751.4	5999.7	5755.1	4666.3
25°	7057.1	7008.2	6925.3	6785.3	6744.5	6877.7	7117.0	7110.2	6418.3	6156.0	4972.1
27.5°	8054.9	8046.7	7852.3	7515.2	7325.0	7273.3	7387.5	7459.5	6832.9	6552.9	5279.3
30°	9010.4	9032.2	8769.8	8394.6	8045.3	7842.8	7739.5	7791.1	7254.2	6981.1	5596.0
32.5°	9842.3	9865.3	9580.0	9140.8	8708.6	8463.9	8246.5	8118.7	7713.6	7416.0	5944.0
35°	10545.0	10568.1	10240.5	9755.2	9294.5	9072.9	8826.9	8477.6	8175.8	7898.5	6331.3
37.5°	11172.9	11166.1	10727.1	10237.8	9785.2	9609.8	9480.7	8919.3	8651.6	8383.8	6760.9
40°	11544.1	11572.6	11197.4	10657.8	10218.7	10091.0	10082.8	9467.1	9200.7	8941.1	7231.2
42.5°	11652.8	11703.0	11431.2	10988.1	10589.9	10451.2	10664.6	10059.8	9839.6	9586.7	7762.6
45°	11457.0	11505.9	11382.3	11075.1	10842.7	10753.0	11164.8	10674.1	10521.8	10271.7	8362.1
47.5°	10886.1	10947.3	10977.2	10911.9	10909.3	11000.3	11613.4	11321.1	11332.0	11076.5	9056.6
50°	9781.1	9884.4	10159.0	10390.0	10747.5	11196.1	12049.7	12022.4	12245.4	12025.2	9961.9
52.5°	7772.2	7918.9	8864.9	9497.0	10300.3	11159.4	12529.5	13147.9	13848.0	13525.8	11238.2
55°	6245.7	6245.7	7015.0	8197.5	9427.6	10917.4	12738.8	13879.2	14939.4	14863.3	12136.6
57.5°	5091.7	5152.9	5643.5	6688.8	8164.9	10341.1	12868.0	14338.6	15818.8	15763.1	13014.7
60°	3142.5	3274.4	4201.4	5233.0	6728.2	9314.9	12786.4	14803.5	16885.8	16930.7	14072.2
62.5°	1769.8	1818.7	2231.8	3765.1	5231.7	7935.2	12162.4	15063.1	18250.5	18440.8	15162.3
65°	1222.0	1246.4	1405.5	2343.4	3626.4	6317.8	10943.2	14901.3	19617.9	20002.6	16086.7
67.5°	887.5	899.8	999.1	1431.3	2151.7	4580.6	9032.2	14085.8	20342.4	20985.3	16263.3
70°	682.3	690.5	762.5	940.6	1270.9	2827.3	6559.7	12464.2	19817.8	20585.7	15358.1
72.5°	554.5	562.7	618.5	696.0	842.8	1671.9	3975.8	10122.3	17501.6	18330.7	13074.5
75°	467.6	478.5	528.7	579.0	660.6	1073.8	1864.9	7049.0	13161.5	13705.2	9092.0
77.5°	259.6	239.2	429.5	479.8	557.3	679.6	872.6	4148.4	7371.2	7522.1	4034.2
80°	161.7	167.2	341.1	386.0	428.1	342.6	399.6	1597.2	2555.3	2427.6	781.6
82.5°	9.5	21.7	262.3	278.6	293.6	146.8	150.9	542.3	615.7	565.5	138.7
85°	0.0	0.0	119.6	96.6	102.0	42.1	43.5	126.4	82.9	89.7	27.2
87.5°	0.0	0.0	0.0	2.8	0.0	4.1	8.2	10.9	4.1	5.4	9.5
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°	2524.1	2524.1	2524.1	2524.1	2524.1	2524.1	2524.1	2524.1	2524.1	2524.1	2524.1
2.5°	2558.1	2463.0	2270.0	2081.0	1927.4	1784.7	1682.7	1586.2	1537.3	1534.6	1531.9
5°	2635.6	2435.7	2049.7	1708.6	1434.0	1213.8	1071.1	969.1	917.5	899.8	897.1
7.5°	2744.3	2443.9	1856.7	1382.3	1058.8	869.9	788.3	755.7	744.9	732.7	729.9
10°	2881.6	2463.0	1684.1	1113.3	834.6	739.4	706.8	693.2	685.0	676.9	674.1
12.5°	3035.2	2480.6	1512.8	924.2	734.0	685.0	661.9	645.6	634.8	625.2	622.5
15°	3184.7	2491.5	1334.8	792.4	682.3	642.9	618.5	600.8	585.8	574.9	573.6
17.5°	3332.9	2506.4	1167.6	713.6	640.2	600.8	576.4	554.5	542.3	530.1	528.7
20°	3497.3	2503.8	1009.9	657.8	598.1	558.6	532.8	512.4	500.2	486.6	485.2
22.5°	3649.5	2490.1	871.2	610.3	554.5	516.5	488.0	467.6	455.3	444.4	443.1
25°	3824.9	2479.3	755.7	566.8	513.8	475.7	444.4	425.5	411.8	402.3	401.0
27.5°	3993.4	2463.0	671.5	527.4	474.4	437.7	407.7	386.0	373.8	367.0	367.0
30°	4159.2	2458.9	640.2	489.3	439.0	402.3	372.4	352.1	342.6	339.8	338.5
32.5°	4359.1	2469.7	653.7	475.7	406.4	369.7	341.1	326.3	316.7	316.7	316.7
35°	4572.5	2467.0	674.1	488.0	384.7	337.1	315.4	305.9	296.3	296.3	296.3
37.5°	4840.3	2471.1	690.5	508.4	376.5	309.9	297.7	285.5	280.0	280.0	280.0
40°	5239.9	2605.7	682.3	526.0	373.8	290.9	266.4	262.3	258.3	258.3	258.3
42.5°	5729.2	2897.9	693.2	527.4	372.4	277.3	244.7	252.9	243.3	241.9	240.6
45°	6264.7	3217.4	762.5	498.9	371.0	270.5	233.8	243.3	228.4	228.4	228.4
47.5°	6796.2	3534.0	833.2	458.1	367.0	269.2	224.3	218.8	214.7	216.1	216.1
50°	7528.8	3792.3	860.4	402.3	357.5	266.4	206.6	208.0	205.2	208.0	208.0
52.5°	8326.7	3846.6	827.8	339.8	330.3	258.3	194.3	199.8	198.4	201.2	201.2
55°	8824.2	3788.2	683.7	282.7	288.1	225.6	182.1	193.0	193.0	193.0	193.0
57.5°	9338.0	3539.4	485.2	229.7	239.2	184.8	171.3	186.2	184.8	183.5	183.5
60°	9707.7	3137.1	319.4	188.9	190.3	152.2	159.1	175.4	173.9	167.2	167.2
62.5°	9983.6	2692.7	205.2	160.4	145.4	137.2	145.4	159.1	153.5	138.7	135.9
65°	9952.3	2077.0	157.6	137.2	119.6	119.6	126.4	138.7	122.3	97.9	95.1
67.5°	9372.0	1405.5	130.5	115.5	100.6	99.2	104.7	115.5	104.7	82.9	80.2
70°	8334.9	918.8	104.7	89.7	80.2	73.4	84.3	99.2	88.4	66.6	63.9
72.5°	6764.9	560.0	78.8	65.3	58.4	47.6	66.6	81.6	70.7	48.9	46.2
75°	4376.8	285.5	54.3	42.1	31.3	28.5	48.9	61.2	48.9	29.9	25.8
77.5°	1674.5	119.6	29.9	19.1	16.3	13.6	27.2	36.7	20.4	6.8	5.4
80°	322.2	50.3	15.0	9.5	8.2	5.4	4.1	2.8	0.0	0.0	0.0
82.5°	55.8	16.3	5.4	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.1	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.8	0.0	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)