

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: P970841

Luminaire Tested: **NAV-SB6C-727-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970841
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-727-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33258.2 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

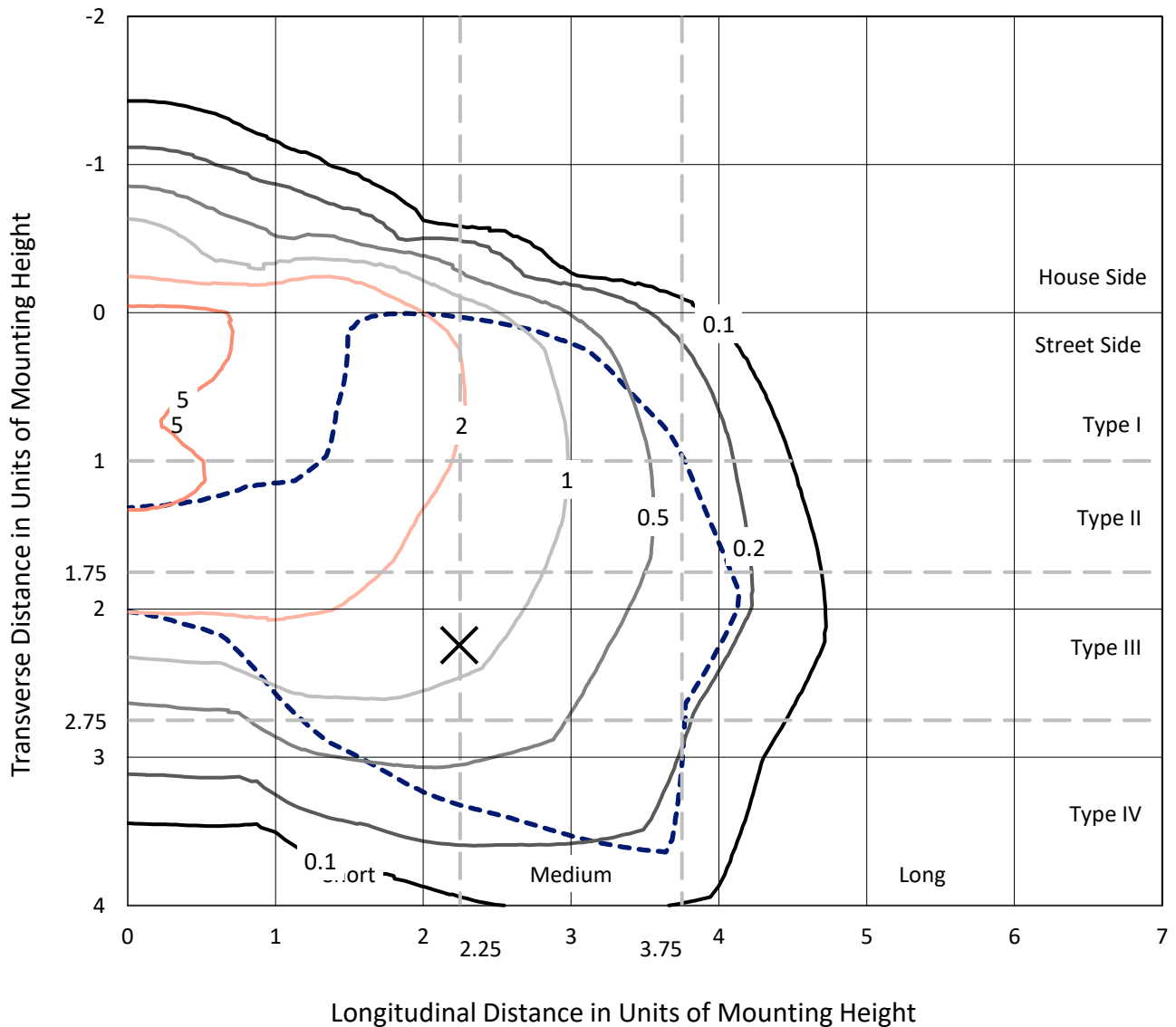
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P970841
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Iso-Footcandle Lines of Horizontal Illumination

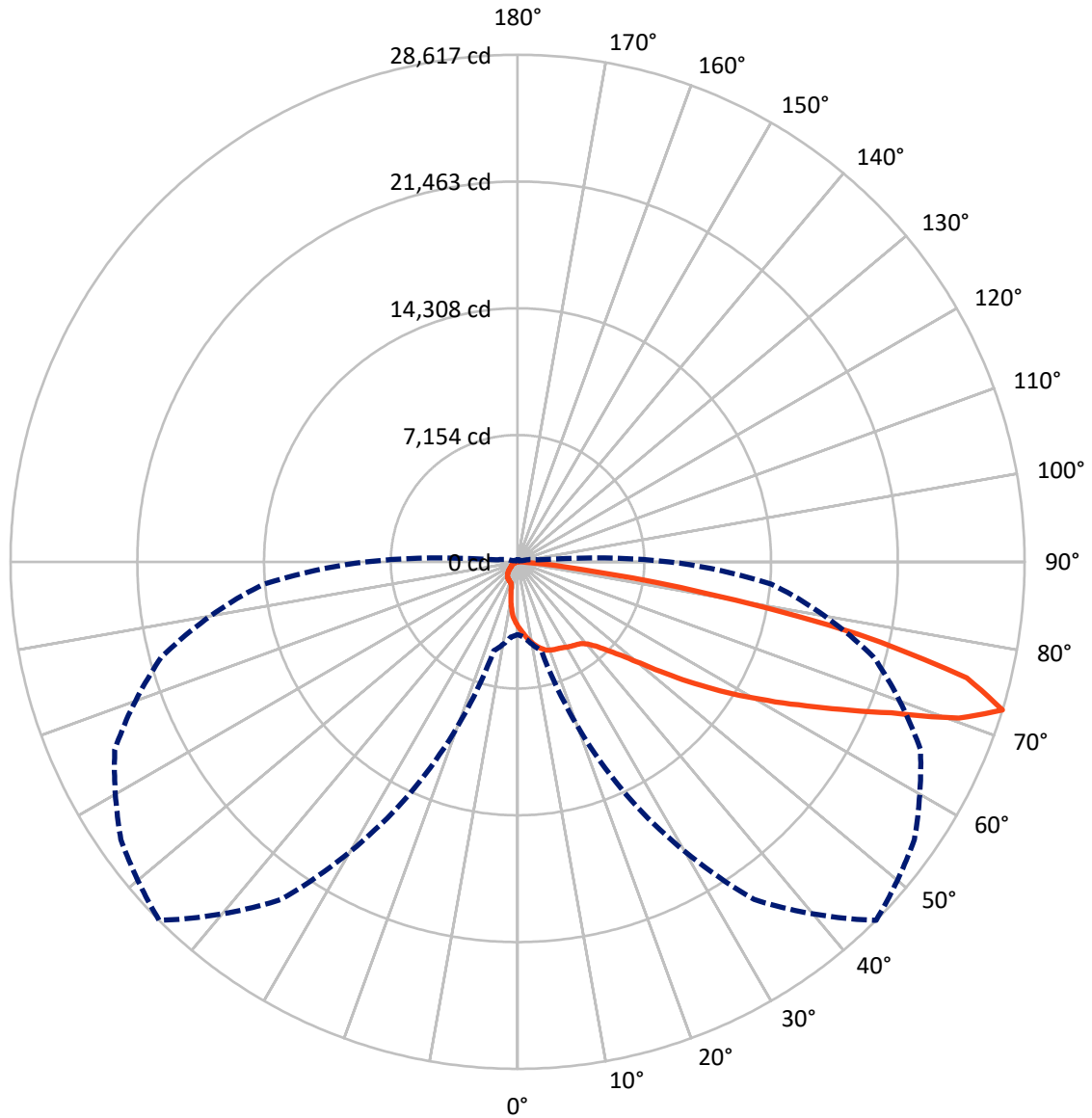
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Short - N/A

REPORT NUMBER: P970841
CATALOG NUMBER: NAV-SB6C-727-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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 CATALOG NUMBER: NAV-SB6C-727-U-T4W-HSS

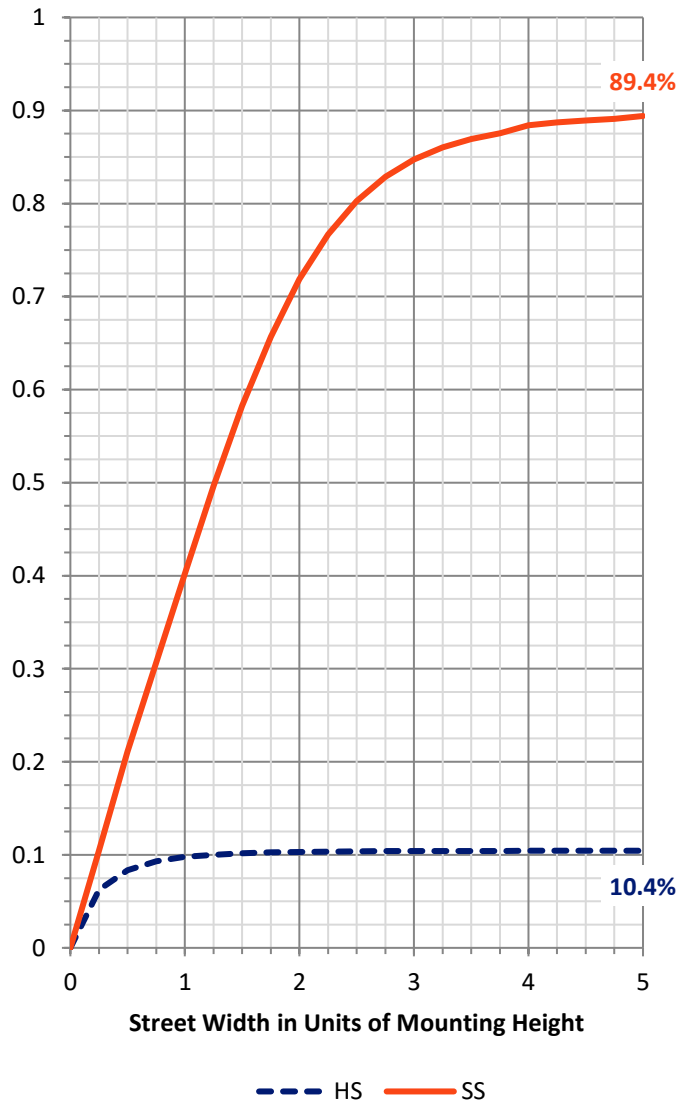
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3494.5	0.0	3494.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	29763.7	0.0	29763.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	33258.2	0.0	33258.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.3	1.0
10°-20°	1003.3	3.0
20°-30°	1647.6	5.0
30°-40°	2336.6	7.0
40°-50°	3862.2	11.6
50°-60°	6938.0	20.9
60°-70°	9633.8	29.0
70°-80°	6988.1	21.0
80°-90°	505.2	1.5
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°	33258.2	100.0
0°-180°	33258.2	100.0

Coefficient of Utilization

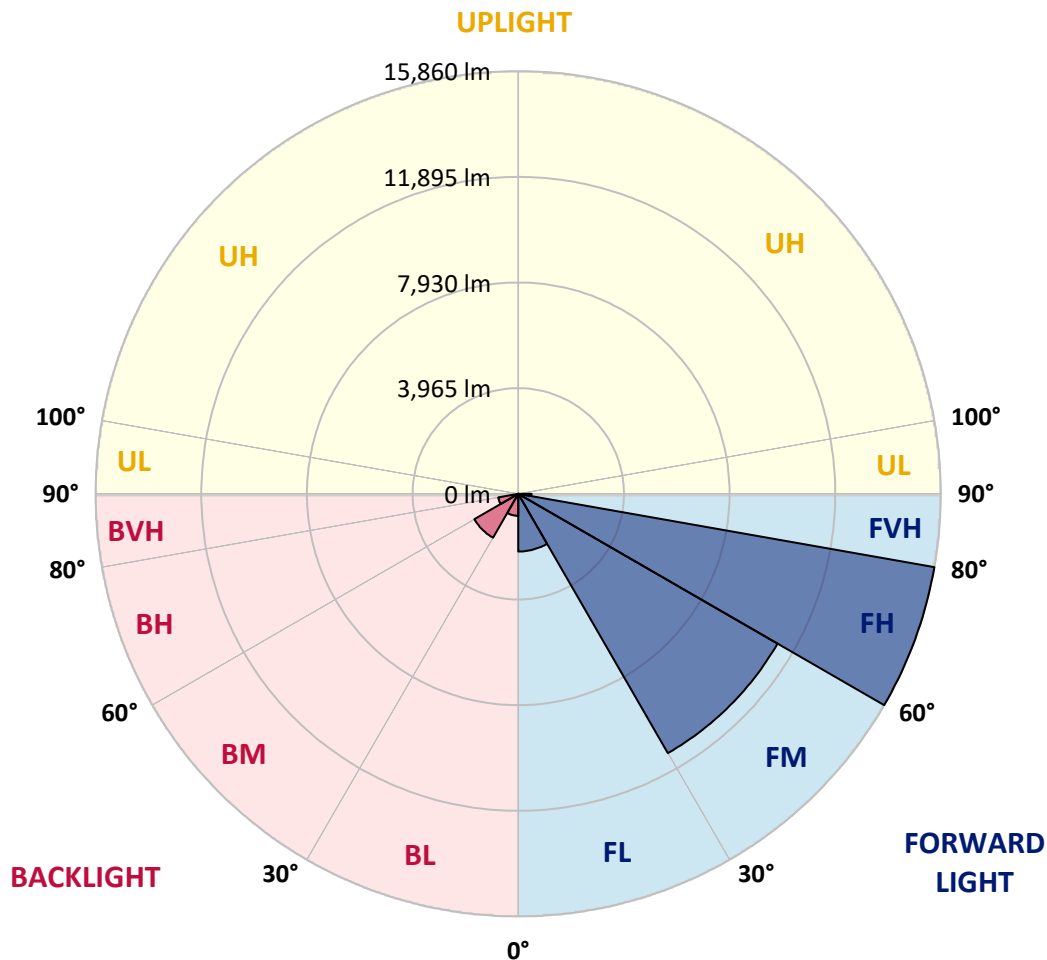


REPORT NUMBER: P970841
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2166.4	6.5			
FM (30°-60°)	11236.4	33.8			
FH (60°-80°)	15859.9	47.7			G5
FVH (80°-90°)	501.0	1.5			G4/750
BL (0°-30°)	827.7	2.5	B2/1000		
BM (30°-60°)	1900.5	5.7	B2/2500		
BH (60°-80°)	762.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	4.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3643.5	3643.5	3643.5	3643.5	3643.5	3643.5	3643.5	3643.5	3643.5	3643.5	3643.5
2.5°	3979.5	3986.3	3981.7	3954.6	3909.1	3884.1	3870.5	3825.1	3795.6	3743.4	3688.9
5°	4345.0	4372.2	4356.4	4301.8	4215.5	4154.3	4136.1	4043.0	3959.1	3861.5	3747.9
7.5°	4733.1	4746.8	4717.3	4646.8	4531.1	4426.7	4410.8	4281.4	4147.5	3997.6	3843.2
10°	5069.1	5085.0	5039.6	4937.4	4805.8	4676.4	4653.7	4510.7	4351.7	4167.9	3970.4
12.5°	5350.6	5366.5	5307.4	5184.9	5039.6	4905.6	4883.0	4733.1	4558.4	4354.0	4108.9
15°	5564.0	5593.5	5514.1	5382.4	5225.8	5091.8	5080.5	4932.9	4762.7	4535.6	4274.6
17.5°	5688.9	5718.4	5643.4	5484.6	5350.6	5237.1	5223.5	5100.9	4942.0	4724.0	4435.8
20°	5709.2	5736.5	5657.1	5518.6	5407.4	5316.6	5309.7	5221.2	5105.4	4896.6	4610.6
22.5°	5648.0	5682.1	5609.4	5498.2	5421.0	5373.4	5364.2	5314.3	5248.5	5071.4	4774.0
25°	5584.4	5611.7	5557.2	5459.6	5418.8	5414.2	5421.0	5411.9	5398.3	5248.5	4964.7
27.5°	5579.9	5609.4	5548.1	5455.0	5432.3	5480.1	5486.8	5530.0	5541.4	5409.6	5148.6
30°	5618.5	5638.9	5579.9	5482.3	5470.9	5579.9	5582.2	5659.3	5677.5	5545.9	5330.2
32.5°	5702.5	5725.1	5666.2	5523.1	5507.2	5659.3	5666.2	5768.3	5797.8	5691.1	5520.9
35°	5900.0	5927.3	5859.1	5636.7	5579.9	5734.3	5754.7	5875.0	5934.0	5845.5	5718.4
37.5°	6392.6	6313.2	6220.1	5866.0	5745.6	5852.3	5886.4	6027.1	6131.5	6029.4	5954.4
40°	7616.2	7366.5	7075.9	6256.4	6036.2	6104.3	6131.5	6272.3	6415.3	6315.4	6279.0
42.5°	9452.7	9157.6	8689.9	7155.3	6474.3	6508.3	6528.8	6651.4	6853.5	6773.9	6783.0
45°	11089.4	10982.8	10506.0	8689.9	7293.8	7125.8	7150.8	7214.4	7511.7	7482.2	7541.2
47.5°	12347.0	12285.8	11918.0	10451.5	8678.6	7881.7	7952.2	7981.7	8410.7	8515.1	8674.1
50°	13314.1	13291.4	12962.3	12017.9	10487.8	8996.4	9021.3	8957.8	9600.3	9859.1	10160.9
52.5°	14226.7	14303.9	14061.0	13473.0	12419.7	10456.0	10451.5	10151.9	11019.1	11409.5	11924.8
55°	15050.7	15078.0	15103.0	14957.6	14362.9	12117.8	12074.6	11584.3	12664.9	13069.0	13627.4
57.5°	15824.9	15836.1	16058.7	16356.0	16385.5	13902.1	13822.6	13234.7	14462.7	14751.1	15093.8
60°	16344.6	16396.9	16866.8	17693.1	18054.0	15743.1	15700.0	15100.7	16292.5	16426.4	16362.9
62.5°	15595.6	15913.3	17098.3	18737.4	19629.5	17784.0	17763.5	17200.5	18217.5	18108.6	17563.7
65°	12624.0	13162.0	15246.0	19443.3	21175.5	20063.1	20092.7	19493.3	20194.8	19840.6	18539.9
67.5°	8830.7	9398.2	11863.6	19500.1	22903.0	22739.5	22909.8	21970.0	22294.6	21500.1	18771.4
70°	6106.5	6399.4	8004.3	18278.8	24249.1	26426.1	26421.6	25011.9	24383.1	22256.0	17590.9
72.5°	4106.6	4258.7	5198.5	14501.4	23259.4	28616.9	28485.2	27336.5	25086.9	20814.5	14371.9
75°	1732.0	1843.4	2406.3	8149.7	18401.4	26181.1	25824.6	24158.3	22290.1	16390.1	8966.9
77.5°	549.4	597.1	948.9	2917.0	10136.0	19679.5	19302.6	15087.1	14939.5	8222.2	3278.1
80°	261.1	304.2	533.5	1171.4	3988.6	10703.5	10651.3	6844.3	6426.6	2220.1	658.4
82.5°	113.5	134.0	295.1	626.6	1784.3	3818.3	3895.5	2329.1	1927.3	842.2	202.0
85°	36.3	47.7	136.2	288.3	753.7	948.9	937.6	553.9	776.3	458.6	70.4
87.5°	0.0	0.0	45.4	65.8	77.2	54.5	61.3	47.7	215.7	127.1	25.0
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: P970841
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3643.5	3643.5	3643.5	3643.5	3643.5	3643.5	3643.5	3643.5	3643.5	3643.5	3643.5
2.5°	3661.7	3625.3	3561.8	3502.7	3450.6	3398.3	3366.5	3321.1	3316.6	3316.6	3328.0
5°	3686.6	3627.6	3514.1	3393.8	3255.3	3123.7	2992.0	2864.9	2824.0	2794.5	2808.1
7.5°	3759.3	3666.2	3486.8	3257.6	2994.2	2706.0	2503.9	2286.0	2202.0	2156.6	2163.4
10°	3863.7	3736.5	3464.2	3062.4	2635.6	2242.9	1954.6	1718.4	1627.7	1589.1	1589.1
12.5°	3979.5	3822.8	3423.3	2819.5	2242.9	1772.9	1491.5	1382.5	1368.9	1368.9	1368.9
15°	4117.9	3927.3	3353.0	2533.4	1832.0	1402.9	1303.1	1307.6	1321.2	1330.2	1330.2
17.5°	4260.9	4038.5	3241.7	2213.4	1468.7	1262.2	1264.4	1271.2	1282.6	1291.7	1291.7
20°	4415.3	4149.7	3094.2	1872.9	1259.9	1221.3	1228.2	1234.9	1244.0	1248.6	1250.8
22.5°	4581.0	4254.2	2919.3	1539.1	1189.5	1187.3	1189.5	1196.4	1207.7	1207.7	1212.3
25°	4758.2	4370.0	2719.5	1296.2	1153.2	1153.2	1157.7	1162.2	1171.4	1171.4	1173.6
27.5°	4939.7	4476.6	2508.5	1169.1	1121.5	1119.2	1119.2	1126.0	1130.5	1132.7	1135.1
30°	5139.5	4601.5	2297.3	1141.8	1096.4	1085.1	1078.3	1082.8	1087.4	1089.7	1094.2
32.5°	5343.8	4721.8	2108.9	1153.2	1071.5	1051.0	1028.4	1023.8	1023.8	1032.9	1039.7
35°	5570.8	4853.5	1963.6	1191.8	1057.9	1001.1	964.8	944.3	946.6	960.2	967.1
37.5°	5843.2	5012.4	1856.9	1225.9	1048.8	944.3	885.3	860.4	844.5	860.4	855.9
40°	6199.6	5246.2	1779.7	1253.1	1037.4	878.5	799.1	758.2	728.7	737.8	733.3
42.5°	6724.0	5613.9	1750.3	1255.3	1012.5	801.3	710.5	656.1	612.9	615.2	606.1
45°	7459.5	6195.1	1902.3	1225.9	958.0	717.4	617.5	544.8	517.6	510.8	501.7
47.5°	8467.4	7041.9	2254.2	1164.6	878.5	635.6	526.6	465.4	445.0	433.6	426.8
50°	9818.2	8129.2	2644.7	1096.4	799.1	558.4	451.7	413.2	399.5	388.2	385.9
52.5°	11384.6	9232.5	2964.7	1028.4	719.7	490.4	404.1	381.4	370.0	360.9	358.6
55°	12821.5	9992.9	2946.6	955.7	642.5	435.8	370.0	356.4	342.8	333.7	329.1
57.5°	13715.9	10099.6	2429.0	876.3	553.9	392.7	338.2	329.1	313.2	302.0	299.6
60°	14126.9	9491.3	1702.5	771.8	465.4	351.9	304.2	299.6	279.2	263.3	258.8
62.5°	14201.7	8360.7	1135.1	642.5	388.2	313.2	270.2	263.3	236.1	208.9	195.3
65°	13897.6	6744.5	785.5	501.7	331.5	272.4	231.5	217.9	188.4	161.1	152.1
67.5°	12935.0	4735.4	547.0	360.9	281.5	215.7	183.9	179.4	156.6	134.0	127.1
70°	11171.2	2699.1	365.5	270.2	222.4	147.6	145.2	149.9	127.1	109.0	99.8
72.5°	8565.1	1234.9	227.0	197.5	152.1	99.8	115.8	118.1	97.6	81.7	72.7
75°	5041.9	528.9	143.0	127.1	77.2	65.8	83.9	86.3	65.8	52.2	45.4
77.5°	1716.2	199.8	90.8	74.9	38.6	36.3	54.5	54.5	36.3	20.4	15.9
80°	390.4	74.9	45.4	29.5	18.1	15.9	18.1	15.9	9.1	2.3	0.0
82.5°	111.2	29.5	18.1	11.4	6.8	6.8	2.3	0.0	0.0	0.0	0.0
85°	31.8	13.6	4.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.6	2.3	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)