

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: P969993

Luminaire Tested: **NAV-SB6A-830-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969993
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-SB6A-830-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 350mA 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: 21212.4 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

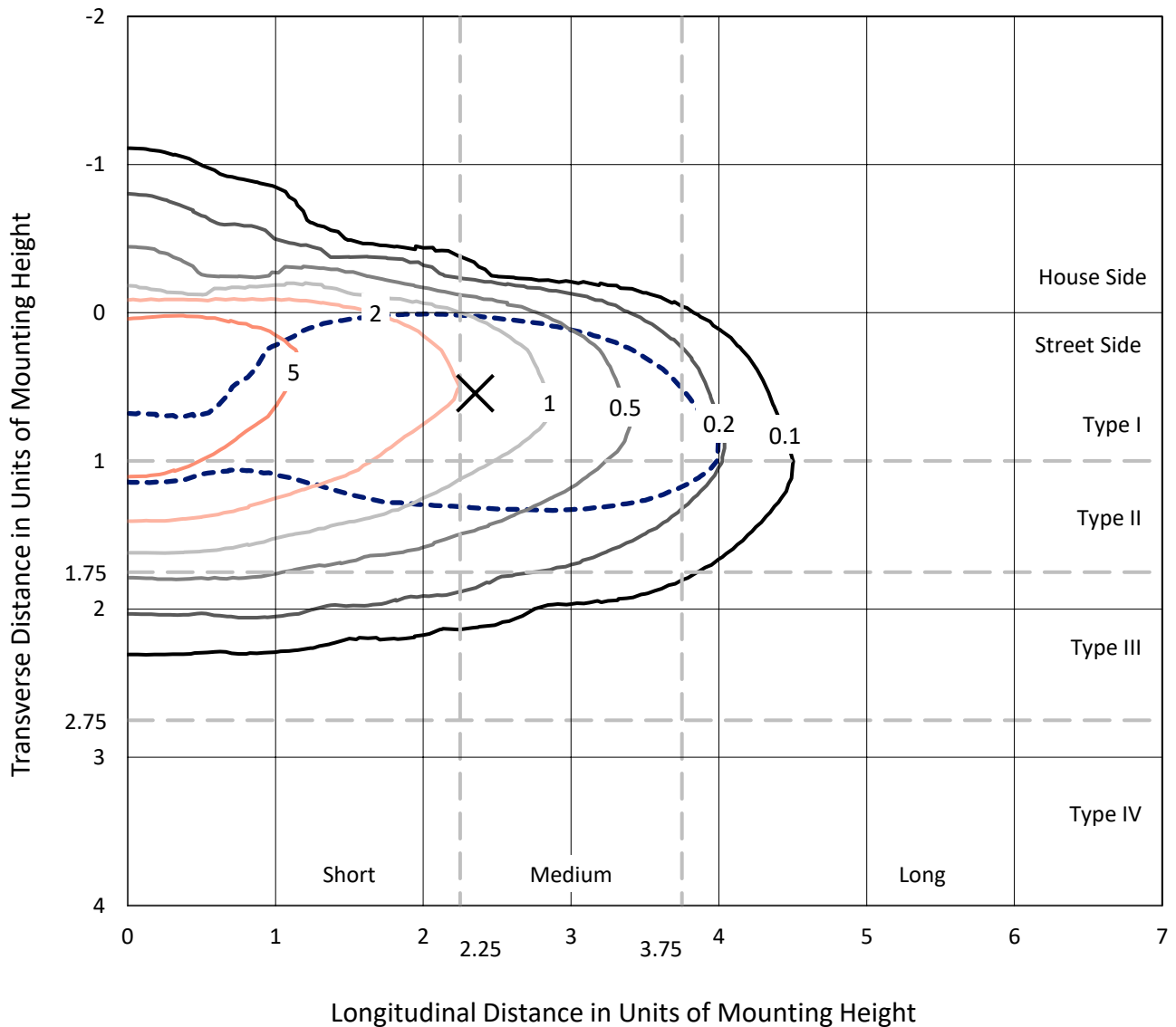
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

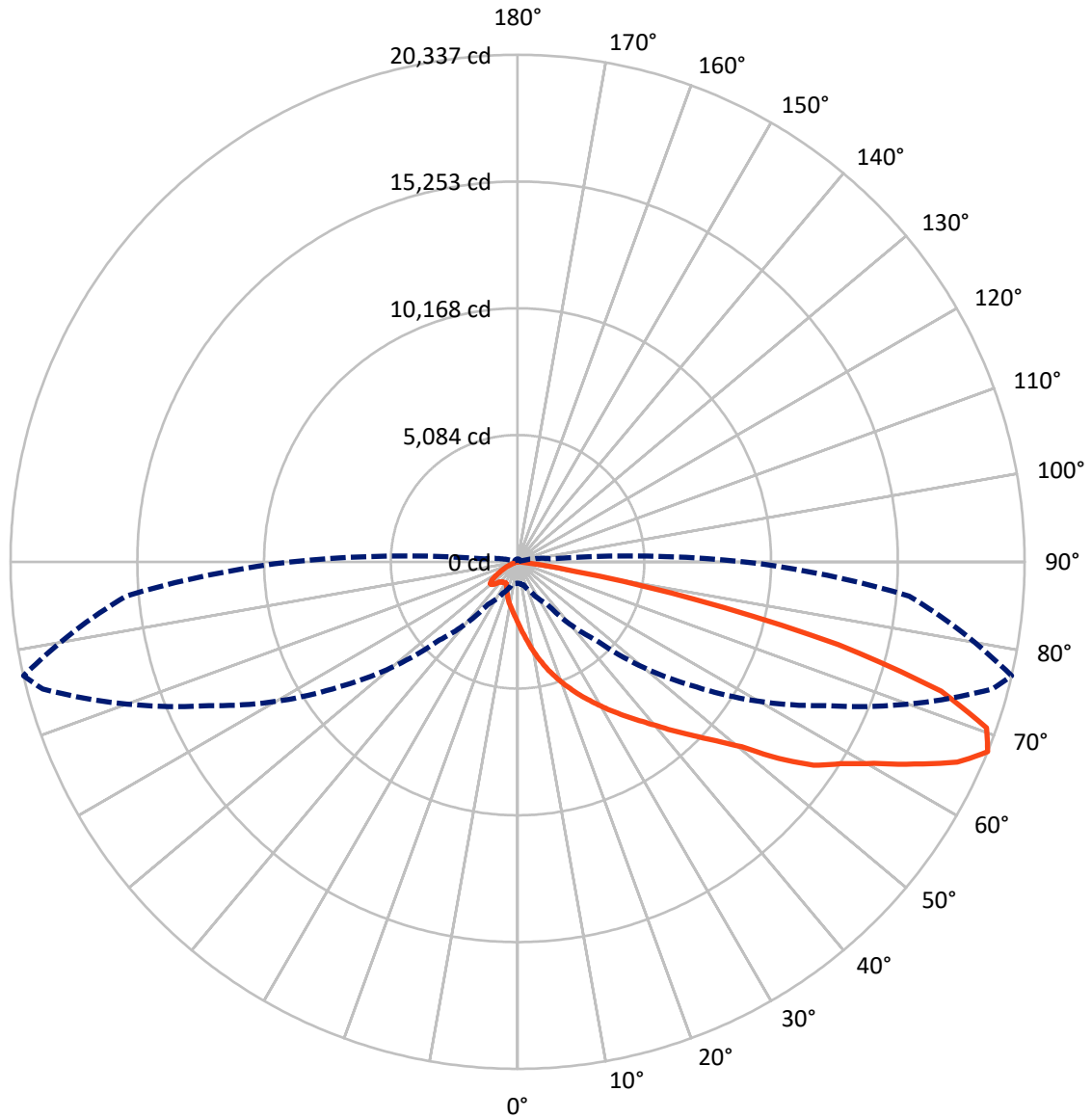
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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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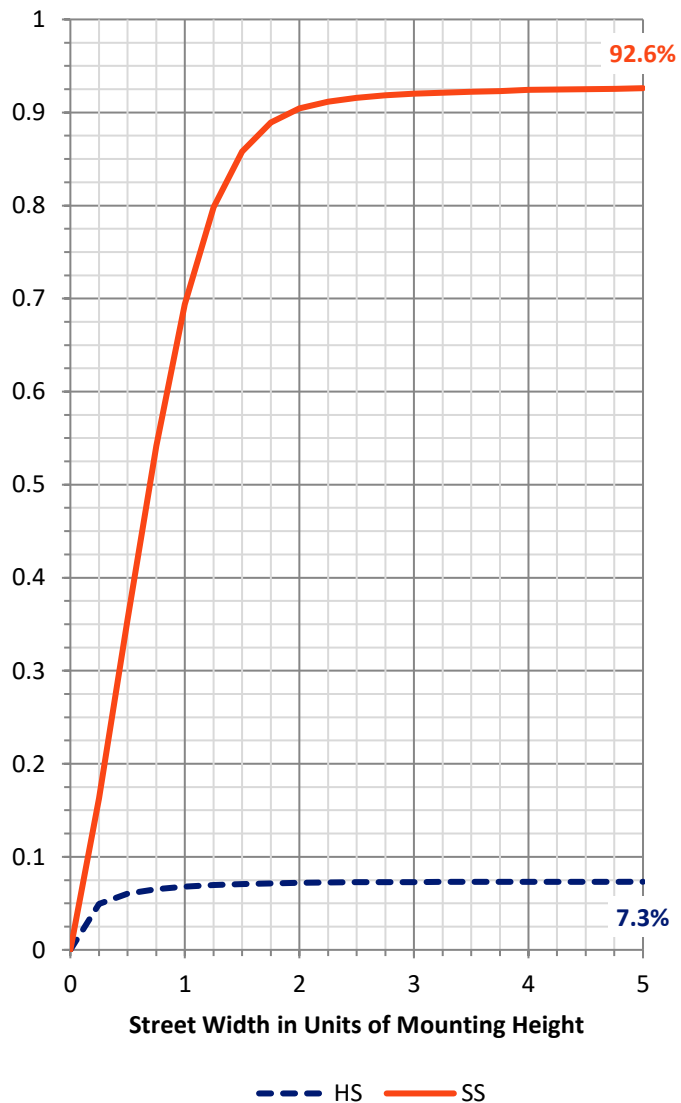
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1560.6	0.0	1560.6
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	19651.8	0.0	19651.8
	% Fixture	92.6	0.0	92.6
Total	Lumens	21212.4	0.0	21212.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.7	1.2
10°-20°	874.3	4.1
20°-30°	1687.1	8.0
30°-40°	2929.0	13.8
40°-50°	4252.7	20.0
50°-60°	4883.7	23.0
60°-70°	4240.0	20.0
70°-80°	1997.1	9.4
80°-90°	98.8	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°	21212.4	100.0
0°-180°	21212.4	100.0

Coefficient of Utilization

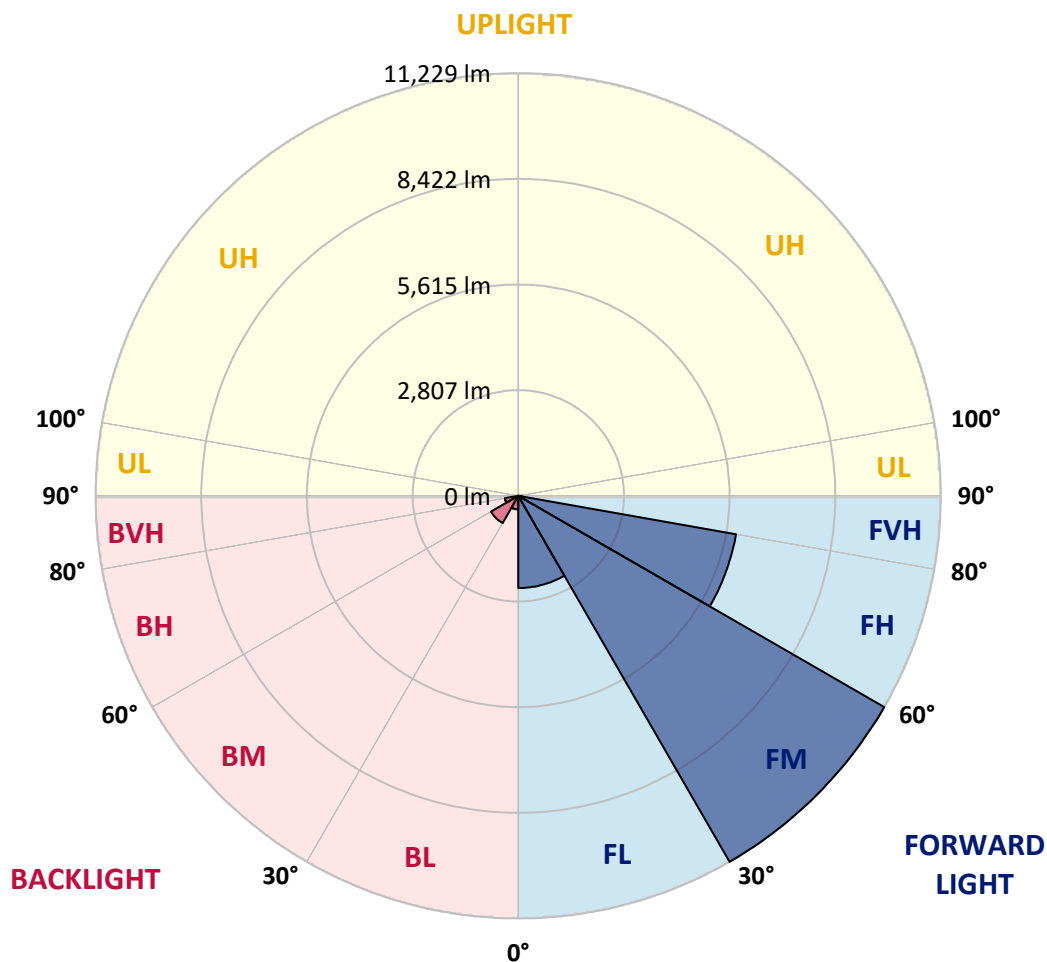


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2449.8	11.5			
FM (30°-60°)	11229.3	52.9			
FH (60°-80°)	5875.8	27.7			G3/7500
FVH (80°-90°)	96.9	0.5			G1/100
BL (0°-30°)	361.3	1.7	B1/500		
BM (30°-60°)	836.2	3.9	B1/1000		
BH (60°-80°)	361.3	1.7	B1/500		G1/500
BVH (80°-90°)	1.8	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°	2446.1	2446.1	2446.1	2446.1	2446.1	2446.1	2446.1	2446.1	2446.1	2446.1	2446.1
2.5°	3386.6	3407.7	3377.4	3319.5	3232.4	3175.9	3037.5	2907.1	2762.3	2716.1	2571.2
5°	4128.2	4146.6	4112.4	4049.2	3933.2	3822.6	3640.8	3368.2	3084.9	2994.0	2737.2
7.5°	4677.5	4688.0	4674.8	4616.9	4506.2	4381.2	4178.2	3855.5	3435.4	3335.2	2941.3
10°	5072.6	5106.9	5103.0	5080.5	5006.8	4905.3	4689.4	4321.8	3827.9	3698.8	3171.9
12.5°	5334.8	5372.9	5395.4	5445.4	5441.5	5376.9	5187.2	4798.6	4219.1	4067.6	3431.4
15°	5411.2	5452.0	5537.7	5653.6	5756.3	5789.2	5656.2	5266.2	4649.8	4456.2	3697.5
17.5°	5367.7	5431.0	5533.7	5716.8	5942.0	6090.9	6076.4	5718.1	5041.1	4819.8	3958.2
20°	5463.9	5524.4	5604.8	5759.0	6021.1	6291.1	6399.1	6150.1	5429.6	5197.8	4232.2
22.5°	5996.0	5985.5	5993.4	6018.4	6175.2	6442.5	6665.2	6542.7	5814.2	5577.1	4522.1
25°	6839.1	6791.6	6711.3	6575.6	6536.1	6665.2	6897.0	6890.5	6220.0	5965.7	4818.4
27.5°	7805.9	7798.0	7609.6	7282.9	7098.5	7048.5	7159.1	7228.9	6621.7	6350.4	5116.1
30°	8732.0	8753.0	8498.8	8135.2	7796.7	7600.4	7500.3	7550.4	7030.1	6765.3	5423.1
32.5°	9538.0	9560.5	9283.8	8858.4	8439.5	8202.4	7991.6	7867.8	7475.3	7186.8	5760.3
35°	10219.0	10241.5	9924.0	9453.8	9007.2	8792.6	8554.1	8215.6	7923.1	7654.4	6135.6
37.5°	10827.7	10821.0	10395.6	9921.4	9482.8	9312.8	9187.7	8643.7	8384.2	8124.7	6551.9
40°	11187.3	11214.9	10851.4	10328.4	9902.9	9779.1	9771.2	9174.5	8916.4	8664.7	7007.7
42.5°	11292.6	11341.3	11077.9	10648.5	10262.5	10128.2	10335.0	9748.9	9535.5	9290.4	7522.7
45°	11102.9	11150.4	11030.5	10732.8	10507.6	10420.7	10819.7	10344.2	10196.7	9954.3	8103.6
47.5°	10549.7	10609.0	10638.0	10574.7	10572.1	10660.3	11254.4	10971.2	10981.7	10734.1	8776.7
50°	9478.8	9578.9	9845.0	10068.9	10415.3	10850.0	11677.2	11650.9	11866.9	11653.5	9654.0
52.5°	7531.9	7674.2	8590.9	9203.5	9982.0	10814.5	12142.3	12741.6	13419.9	13107.8	10890.8
55°	6052.7	6052.7	6798.2	7944.3	9136.3	10580.0	12345.1	13450.3	14477.7	14403.9	11761.6
57.5°	4934.3	4993.6	5469.2	6482.1	7912.6	10021.5	12470.3	13895.5	15329.9	15275.9	12612.5
60°	3045.5	3173.2	4071.6	5071.3	6520.3	9027.0	12391.2	14346.0	16363.9	16407.5	13637.3
62.5°	1715.0	1762.5	2162.9	3648.7	5070.1	7690.0	11786.6	14597.5	17686.5	17870.9	14693.7
65°	1184.2	1207.9	1362.0	2270.9	3514.4	6122.5	10605.1	14440.8	19011.6	19384.4	15589.4
67.5°	860.2	872.0	968.2	1387.0	2085.2	4439.1	8753.0	13650.4	19713.7	20336.7	15760.7
70°	661.2	669.1	738.9	911.5	1231.6	2739.8	6356.9	12079.0	19205.2	19949.5	14883.4
72.5°	537.4	545.3	599.3	674.4	816.7	1620.2	3852.9	9809.5	16960.7	17764.2	12670.4
75°	453.2	463.7	512.4	561.2	640.2	1040.6	1807.3	6831.1	12754.8	13281.6	8811.0
77.5°	251.6	231.9	416.3	464.9	540.1	658.7	845.6	4020.2	7143.3	7289.6	3909.6
80°	156.7	162.1	330.7	374.1	414.9	331.9	387.2	1547.7	2476.4	2352.6	757.4
82.5°	9.2	21.1	254.2	270.0	284.5	142.3	146.2	525.6	596.8	548.0	134.4
85°	0.0	0.0	115.9	93.5	98.8	40.8	42.1	122.5	80.4	86.9	26.3
87.5°	0.0	0.0	0.0	2.7	0.0	4.0	7.9	10.6	4.0	5.2	9.2
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°	2446.1	2446.1	2446.1	2446.1	2446.1	2446.1	2446.1	2446.1	2446.1	2446.1	2446.1
2.5°	2479.1	2386.8	2199.8	2016.7	1867.9	1729.5	1630.8	1537.2	1489.8	1487.2	1484.5
5°	2554.1	2360.5	1986.3	1655.8	1389.7	1176.3	1038.0	939.2	889.1	872.0	869.4
7.5°	2659.5	2368.4	1799.4	1339.7	1026.1	843.1	764.0	732.4	721.8	710.0	707.4
10°	2792.5	2386.8	1632.0	1078.8	808.8	716.6	685.0	671.8	663.9	656.0	653.3
12.5°	2941.3	2403.9	1466.1	895.7	711.3	663.9	641.4	625.7	615.1	605.9	603.3
15°	3086.3	2414.5	1293.6	767.9	661.2	623.1	599.3	582.2	567.7	557.2	555.9
17.5°	3229.9	2428.9	1131.5	691.6	620.4	582.2	558.5	537.4	525.6	513.7	512.4
20°	3389.3	2426.4	978.7	637.6	579.5	541.4	516.4	496.6	484.7	471.6	470.3
22.5°	3536.8	2413.2	844.4	591.4	537.4	500.5	472.9	453.2	441.3	430.7	429.4
25°	3706.7	2402.6	732.4	549.3	497.9	461.0	430.7	412.3	399.1	389.9	388.6
27.5°	3870.0	2386.8	650.7	511.1	459.7	424.1	395.1	374.1	362.2	355.7	355.7
30°	4030.7	2382.9	620.4	474.2	425.5	389.9	360.9	341.1	331.9	329.3	328.0
32.5°	4224.3	2393.4	633.6	461.0	393.8	358.2	330.7	316.1	306.9	306.9	306.9
35°	4431.2	2390.8	653.3	472.9	372.8	326.7	305.6	296.3	287.2	287.2	287.2
37.5°	4690.7	2394.7	669.1	492.6	364.9	300.3	288.4	276.6	271.3	271.3	271.3
40°	5078.0	2525.1	661.2	509.7	362.2	281.9	258.2	254.2	250.3	250.3	250.3
42.5°	5552.1	2808.3	671.8	511.1	360.9	268.8	237.1	245.0	235.7	234.4	233.2
45°	6071.1	3117.8	738.9	483.4	359.6	262.1	226.5	235.7	221.3	221.3	221.3
47.5°	6586.1	3424.8	807.5	443.9	355.7	260.9	217.3	212.1	208.1	209.4	209.4
50°	7296.2	3675.0	833.8	389.9	346.4	258.2	200.2	201.5	199.0	201.5	201.5
52.5°	8069.3	3727.7	802.2	329.3	320.1	250.3	188.4	193.6	192.3	195.0	195.0
55°	8551.5	3671.1	662.6	274.0	279.2	218.6	176.5	187.1	187.1	187.1	187.1
57.5°	9049.4	3430.1	470.3	222.6	231.9	179.2	165.9	180.5	179.2	177.8	177.8
60°	9407.7	3040.1	309.5	183.1	184.4	147.5	154.2	169.9	168.6	162.1	162.1
62.5°	9675.1	2609.4	199.0	155.4	140.9	133.0	140.9	154.2	148.8	134.4	131.7
65°	9644.7	2012.7	152.8	133.0	115.9	115.9	122.5	134.4	118.6	94.8	92.2
67.5°	9082.3	1362.0	126.5	111.9	97.5	96.1	101.5	111.9	101.5	80.4	77.7
70°	8077.3	890.4	101.5	86.9	77.7	71.1	81.7	96.1	85.6	64.6	61.9
72.5°	6555.9	542.7	76.4	63.2	56.7	46.1	64.6	79.0	68.5	47.5	44.8
75°	4241.4	276.6	52.7	40.8	30.3	27.7	47.5	59.2	47.5	29.0	25.0
77.5°	1622.8	115.9	29.0	18.4	15.8	13.2	26.3	35.6	19.8	6.6	5.2
80°	312.2	48.7	14.5	9.2	7.9	5.2	4.0	2.7	0.0	0.0	0.0
82.5°	54.0	15.8	5.2	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.6	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)