

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: P963484

Luminaire Tested: **NAV-SB3A-730-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963484
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3A-730-U-T2R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14051.7 lumens
Efficiency: N/A
Efficacy: 165.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

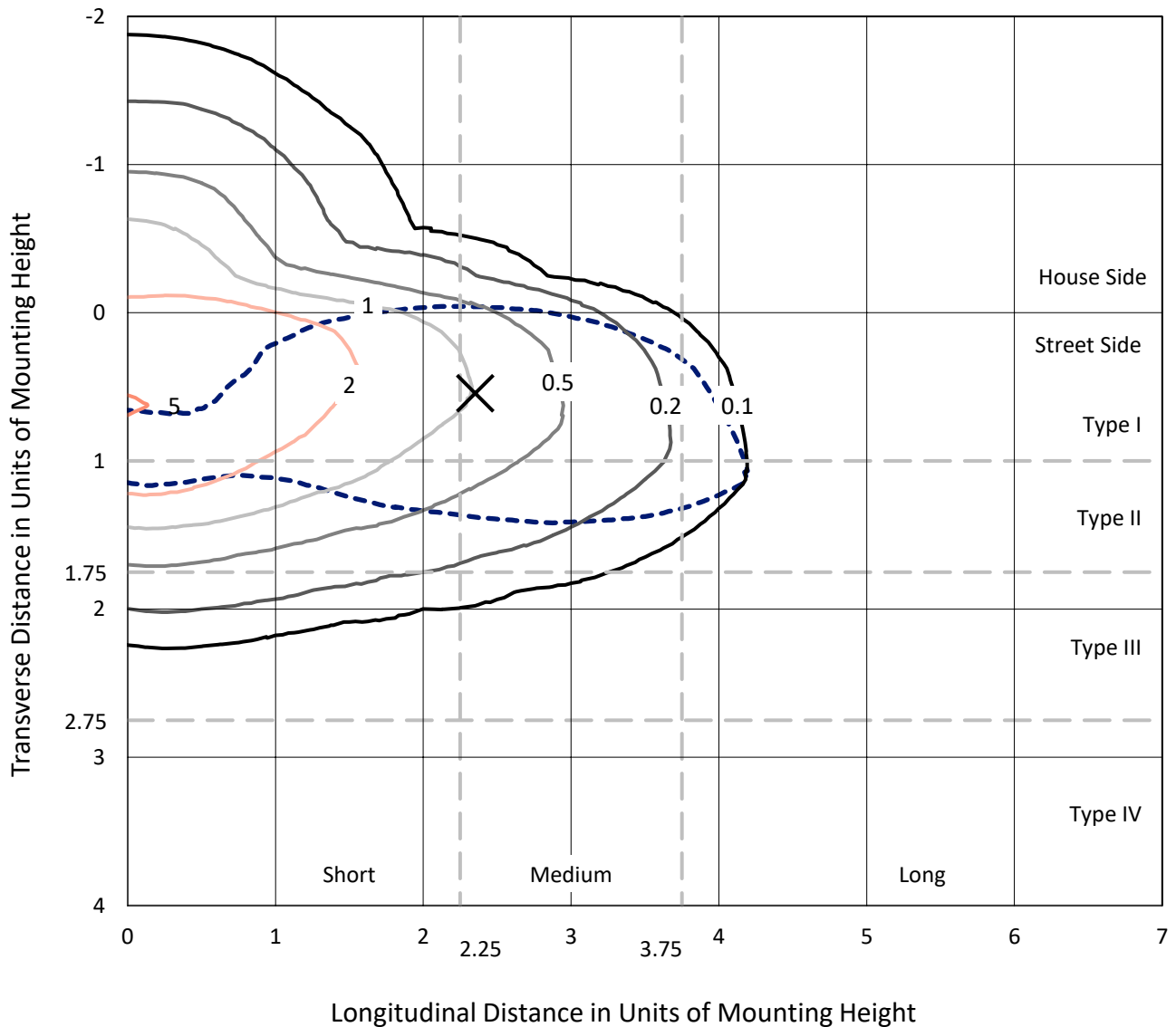
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

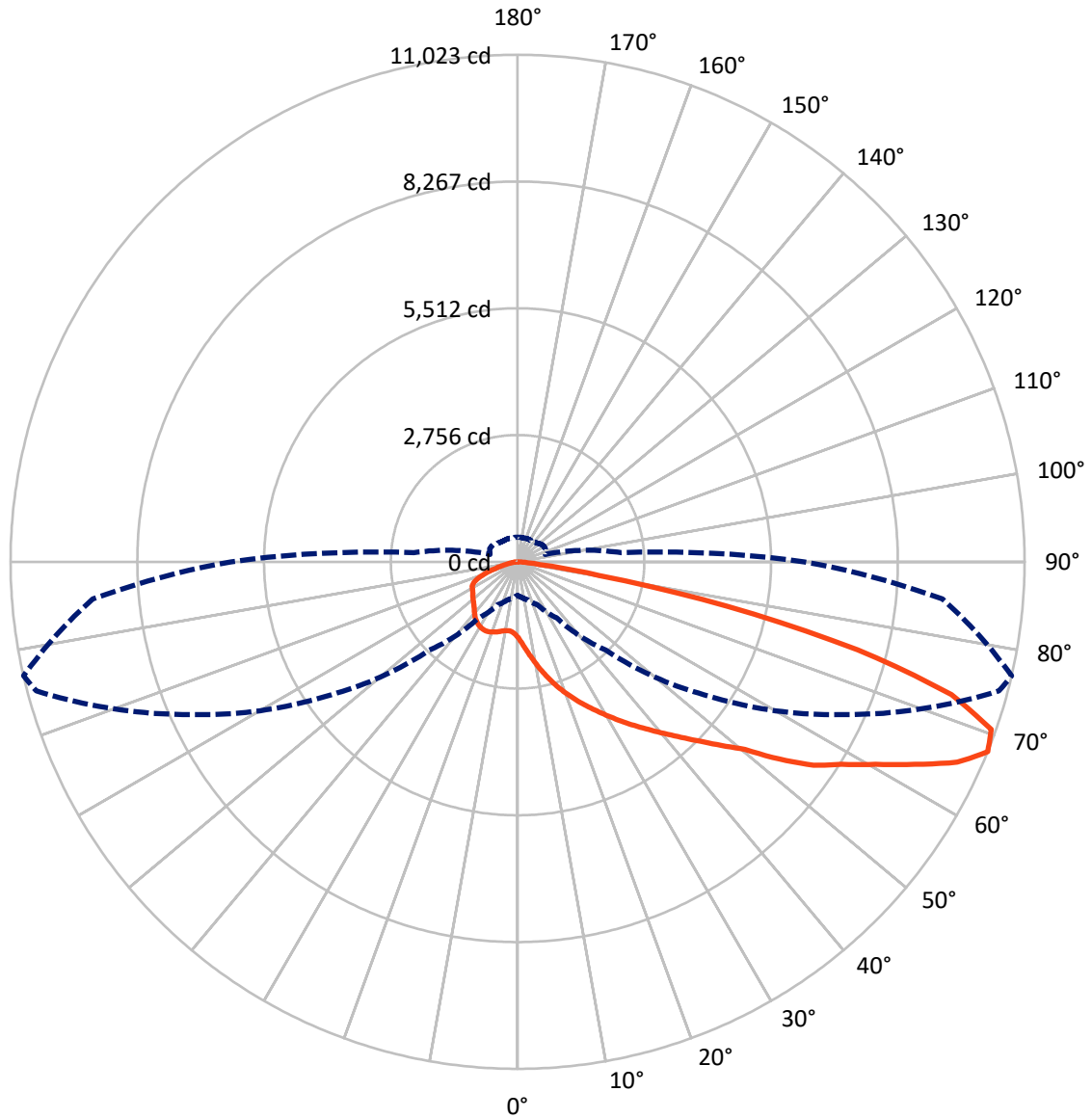
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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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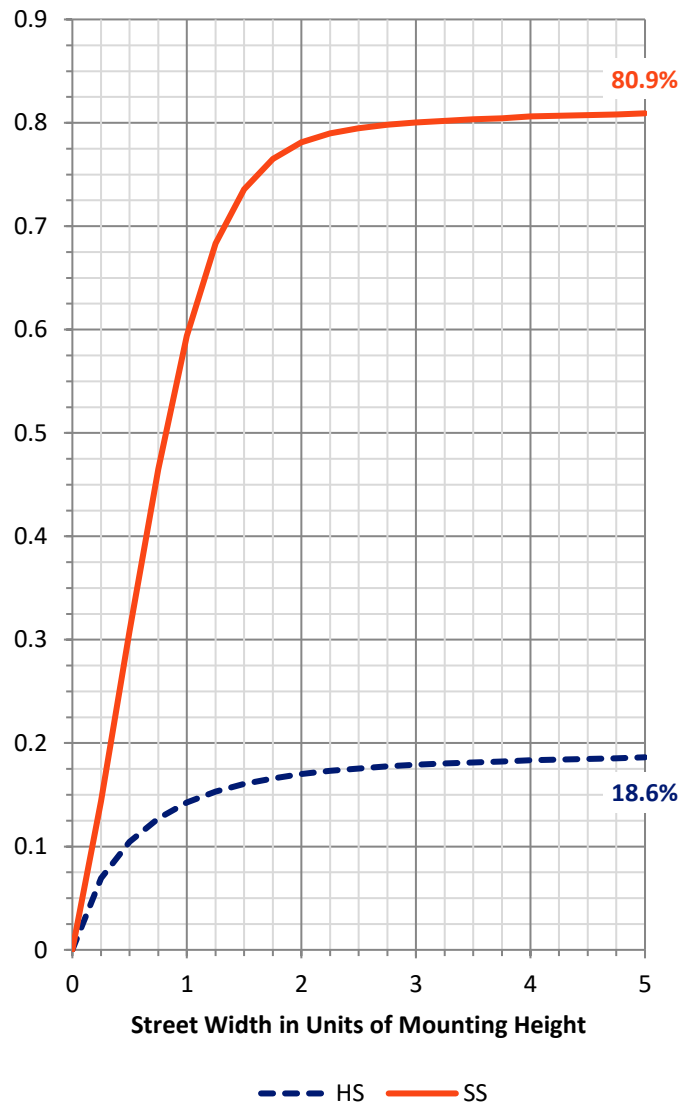
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2658.0	0.0	2658.0
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	11393.7	0.0	11393.7
	% Fixture	81.1	0.0	81.1
Total	Lumens	14051.7	0.0	14051.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.7	1.3
10°-20°	634.9	4.5
20°-30°	1198.7	8.5
30°-40°	1931.1	13.7
40°-50°	2641.4	18.8
50°-60°	2979.5	21.2
60°-70°	2781.0	19.8
70°-80°	1524.5	10.8
80°-90°	183.9	1.3
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°	14051.7	100.0
0°-180°	14051.7	100.0

Coefficient of Utilization

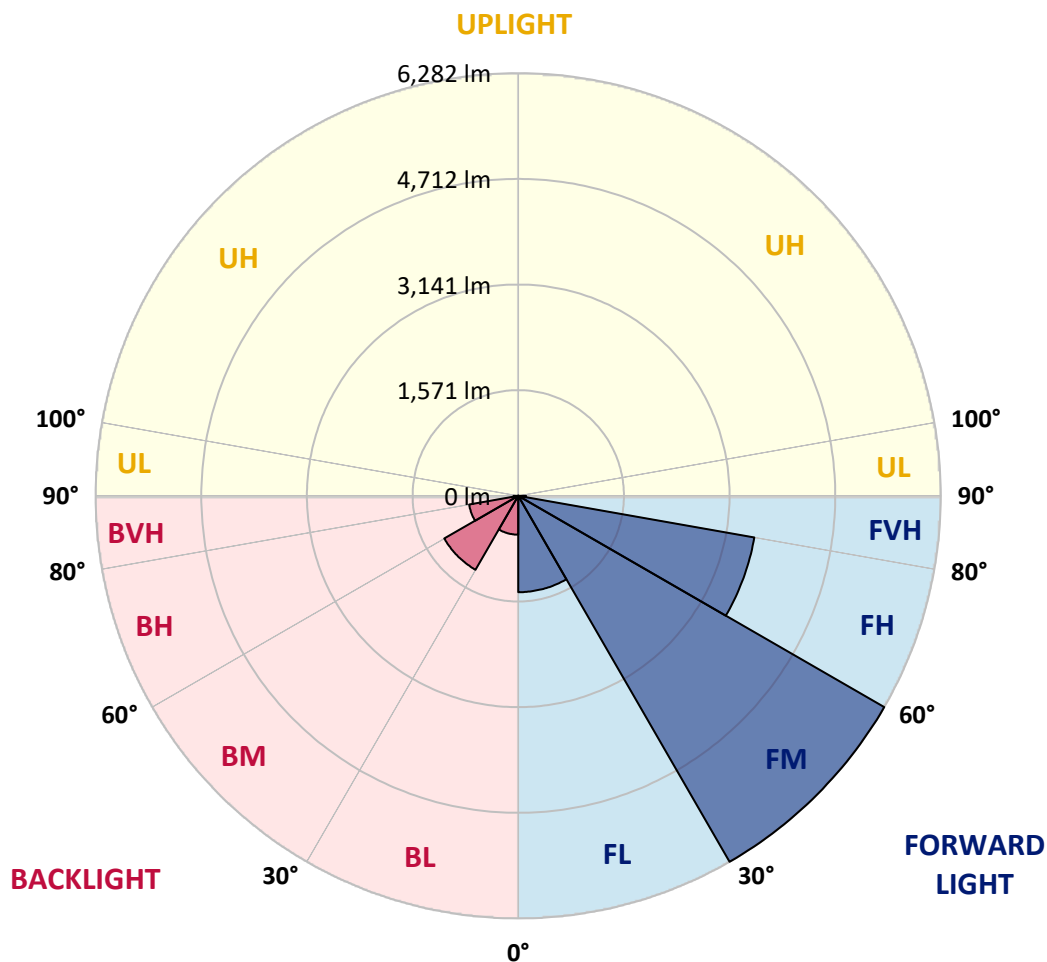


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1432.4	10.2			
FM (30°-60°)	6282.4	44.7			
FH (60°-80°)	3563.9	25.4			G2/5000
FVH (80°-90°)	115.0	0.8			G2/225
BL (0°-30°)	577.9	4.1	B2/1000		
BM (30°-60°)	1269.7	9.0	B2/2500		
BH (60°-80°)	741.5	5.3	B2/1000		G2/1000
BVH (80°-90°)	68.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1648.7	1648.7	1648.7	1648.7	1648.7	1648.7	1648.7	1648.7	1648.7	1648.7	1648.7
2.5°	2064.4	2078.8	2060.7	2060.7	1999.8	1967.9	1906.9	1860.5	1777.0	1762.6	1707.4
5°	2440.0	2458.2	2432.8	2421.9	2350.1	2284.1	2181.8	2081.1	1932.3	1917.1	1787.3
7.5°	2730.9	2754.2	2731.6	2720.0	2656.2	2582.2	2462.6	2321.8	2112.2	2082.5	1894.6
10°	2968.1	2971.7	2964.5	2968.8	2918.8	2857.8	2735.3	2571.3	2309.5	2268.8	2024.5
12.5°	3102.3	3119.0	3133.5	3159.6	3150.8	3113.1	3002.9	2807.1	2518.4	2466.1	2165.8
15°	3165.4	3194.4	3227.0	3287.3	3335.9	3345.3	3261.1	3060.2	2730.9	2667.8	2308.8
17.5°	3187.9	3215.4	3267.0	3354.0	3458.5	3528.8	3491.0	3306.1	2941.2	2868.8	2458.9
20°	3301.7	3309.7	3340.9	3423.6	3536.8	3653.5	3681.8	3542.6	3149.4	3067.5	2614.2
22.5°	3545.5	3529.5	3538.2	3575.9	3657.2	3770.4	3834.9	3751.5	3363.4	3269.1	2770.8
25°	3948.0	3901.7	3855.2	3811.7	3853.0	3916.8	3990.1	3960.4	3587.5	3467.9	2928.9
27.5°	4456.5	4399.9	4297.6	4154.7	4104.7	4127.2	4159.9	4154.0	3795.0	3673.9	3092.1
30°	4957.0	4891.0	4769.1	4562.4	4430.4	4370.9	4346.2	4329.6	4020.6	3891.4	3256.8
32.5°	5356.6	5304.5	5184.8	4953.4	4761.8	4660.4	4578.4	4518.9	4256.3	4127.2	3430.9
35°	5706.3	5657.7	5520.5	5268.2	5060.0	4951.9	4844.6	4717.7	4501.5	4370.9	3618.0
37.5°	6025.5	5976.8	5789.0	5526.4	5316.8	5242.1	5146.3	4930.9	4747.4	4624.1	3816.1
40°	6227.1	6216.2	6040.6	5743.3	5525.7	5488.7	5456.8	5178.2	5020.1	4905.4	4033.6
42.5°	6278.5	6302.5	6163.2	5918.8	5711.3	5681.6	5756.3	5458.2	5326.2	5216.6	4280.3
45°	6154.5	6223.4	6132.1	5965.9	5843.3	5827.4	6021.8	5764.3	5665.0	5564.8	4577.6
47.5°	5840.4	5957.2	5919.5	5896.3	5878.9	5947.8	6255.4	6089.2	6048.6	5961.6	4917.1
50°	5206.5	5427.8	5493.8	5640.3	5808.6	6041.3	6467.9	6444.0	6496.9	6409.1	5330.5
52.5°	4110.6	4415.2	4798.1	5165.2	5592.4	6010.2	6701.4	6953.1	7176.5	7128.7	5987.7
55°	3393.2	3530.2	3824.7	4497.8	5173.2	5878.9	6806.6	7364.4	7851.1	7808.3	6486.0
57.5°	2841.9	2964.5	3145.8	3707.9	4539.2	5580.8	6871.9	7615.3	8313.2	8308.8	6977.8
60°	2250.7	2380.6	2566.3	2964.5	3798.6	5065.8	6857.4	7901.1	8902.8	8939.1	7577.6
62.5°	1583.4	1726.3	1932.3	2303.7	3042.1	4398.5	6561.4	8107.9	9597.0	9695.7	8299.3
65°	1040.9	1135.2	1290.4	1611.0	2266.7	3540.4	5996.5	8134.7	10339.8	10506.6	8976.8
67.5°	729.7	766.0	857.3	1031.5	1494.2	2714.9	5096.3	7856.9	10835.2	11023.1	9270.6
70°	569.4	587.5	634.0	703.6	938.6	1825.7	3905.2	7134.5	10729.3	10925.1	8963.8
72.5°	491.8	509.2	526.6	535.3	629.6	1127.2	2645.3	5965.2	9732.0	9864.7	7793.8
75°	446.1	450.5	464.9	462.1	480.2	731.1	1526.8	4346.2	7678.5	7632.8	5753.4
77.5°	375.0	380.8	404.8	401.1	426.5	499.8	792.8	2804.9	4978.0	4667.5	3202.4
80°	317.8	320.6	346.8	342.3	370.6	361.9	404.8	1429.7	2111.5	1788.7	923.3
82.5°	110.3	136.3	264.8	272.8	282.9	219.0	233.6	583.2	644.8	493.9	193.6
85°	53.7	57.3	134.9	191.5	190.8	110.3	113.9	208.2	203.1	159.6	64.6
87.5°	8.7	10.9	16.0	74.7	59.4	29.0	39.2	40.6	42.0	36.3	14.6
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°	1648.7	1648.7	1648.7	1648.7	1648.7	1648.7	1648.7	1648.7	1648.7	1648.7	1648.7
2.5°	1666.9	1630.6	1554.4	1484.1	1429.0	1376.0	1346.2	1320.8	1306.4	1303.4	1303.4
5°	1711.9	1637.1	1498.6	1381.8	1305.6	1249.1	1219.3	1200.5	1191.0	1185.2	1184.5
7.5°	1776.3	1666.9	1469.5	1336.8	1257.1	1216.4	1201.2	1198.2	1197.5	1198.2	1200.5
10°	1865.6	1715.4	1466.7	1325.9	1259.2	1236.7	1235.9	1236.7	1239.6	1240.4	1241.1
12.5°	1962.1	1765.5	1478.3	1335.4	1286.8	1274.4	1272.2	1271.5	1273.7	1275.2	1275.9
15°	2067.2	1831.5	1497.8	1355.7	1317.2	1304.2	1302.0	1297.6	1296.9	1296.2	1295.5
17.5°	2175.3	1896.8	1519.6	1377.4	1336.8	1318.7	1310.7	1300.5	1292.5	1290.4	1292.5
20°	2284.8	1961.3	1534.8	1388.3	1338.2	1312.8	1296.9	1279.5	1265.8	1257.8	1260.6
22.5°	2401.6	2028.8	1544.3	1385.4	1325.2	1290.4	1261.4	1241.1	1220.1	1206.2	1206.9
25°	2515.5	2087.5	1543.5	1370.2	1299.8	1255.5	1218.6	1192.5	1163.5	1148.9	1148.9
27.5°	2625.0	2140.5	1525.4	1343.4	1263.5	1214.2	1169.9	1138.8	1110.5	1096.8	1096.0
30°	2738.2	2184.7	1497.1	1304.2	1220.8	1166.3	1117.8	1090.9	1065.5	1052.5	1051.8
32.5°	2850.6	2225.4	1457.2	1255.5	1171.5	1119.2	1071.3	1046.6	1031.5	1031.5	1032.2
35°	2969.5	2253.7	1404.2	1198.9	1119.2	1069.2	1031.5	1016.9	1015.5	1006.8	1004.6
37.5°	3095.0	2271.8	1339.7	1140.9	1067.7	1020.6	1008.9	991.6	977.0	958.2	955.3
40°	3227.0	2290.0	1262.1	1080.8	1013.3	987.2	982.2	958.9	917.6	871.1	864.6
42.5°	3387.3	2302.3	1181.6	1020.6	956.0	947.3	954.6	914.6	848.7	813.8	814.6
45°	3573.0	2322.5	1107.6	961.0	897.3	897.3	927.7	875.5	821.1	799.3	803.0
47.5°	3813.8	2369.7	1038.7	895.7	842.9	857.3	868.3	828.3	797.9	771.0	770.3
50°	4162.0	2482.9	967.6	829.8	801.6	830.6	815.3	792.1	756.6	734.8	732.6
52.5°	4594.4	2549.6	904.5	770.3	766.0	795.0	773.3	751.4	724.6	695.6	689.8
55°	4888.8	2561.9	851.6	726.8	742.0	739.1	731.1	711.6	697.1	658.6	659.4
57.5°	5218.1	2586.6	808.0	700.7	726.8	694.8	692.0	675.3	656.4	630.3	621.7
60°	5612.0	2625.0	770.3	690.5	713.7	665.8	651.4	644.8	626.0	612.9	616.5
62.5°	6041.3	2659.9	731.8	692.0	698.5	637.6	615.8	613.7	602.1	597.7	597.7
65°	6334.4	2564.9	684.0	690.5	674.6	608.5	581.0	580.3	570.8	569.4	568.7
67.5°	6232.1	2263.8	619.4	670.2	650.0	579.5	549.1	546.2	533.8	534.5	534.5
70°	5720.0	1834.4	530.2	620.1	619.4	553.4	515.7	506.2	489.6	492.5	495.4
72.5°	4759.7	1359.3	410.5	536.8	570.8	529.5	477.2	462.1	441.1	443.9	443.2
75°	3437.4	924.0	298.9	408.4	496.8	501.2	439.5	413.5	388.1	392.4	393.9
77.5°	1759.0	523.7	219.8	281.5	390.2	455.5	405.5	370.6	364.8	405.5	399.6
80°	573.8	262.6	152.3	197.3	256.0	372.8	355.4	315.5	314.1	323.5	277.8
82.5°	171.2	111.0	97.9	129.9	141.4	285.8	306.8	238.6	205.3	216.2	223.4
85°	58.7	53.7	55.9	64.6	67.4	167.6	214.7	158.2	149.4	164.6	162.5
87.5°	13.7	18.9	16.0	14.6	14.6	40.6	83.4	66.0	91.4	60.9	58.7
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)