

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: P959302

Luminaire Tested: **NAV-SB1A-735-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959302
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-735-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4557.2 lumens
Efficiency: N/A
Efficacy: 147.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

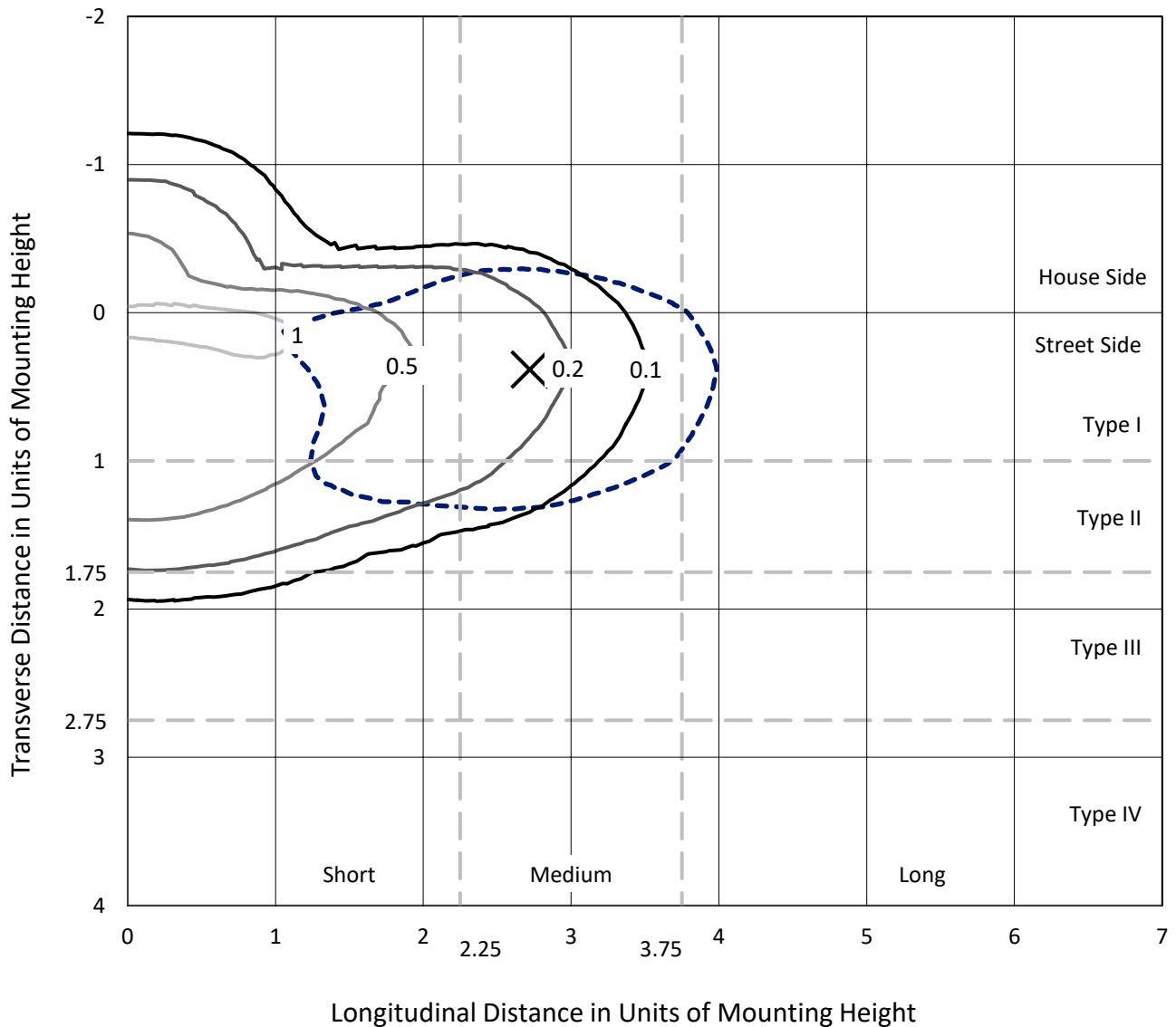
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

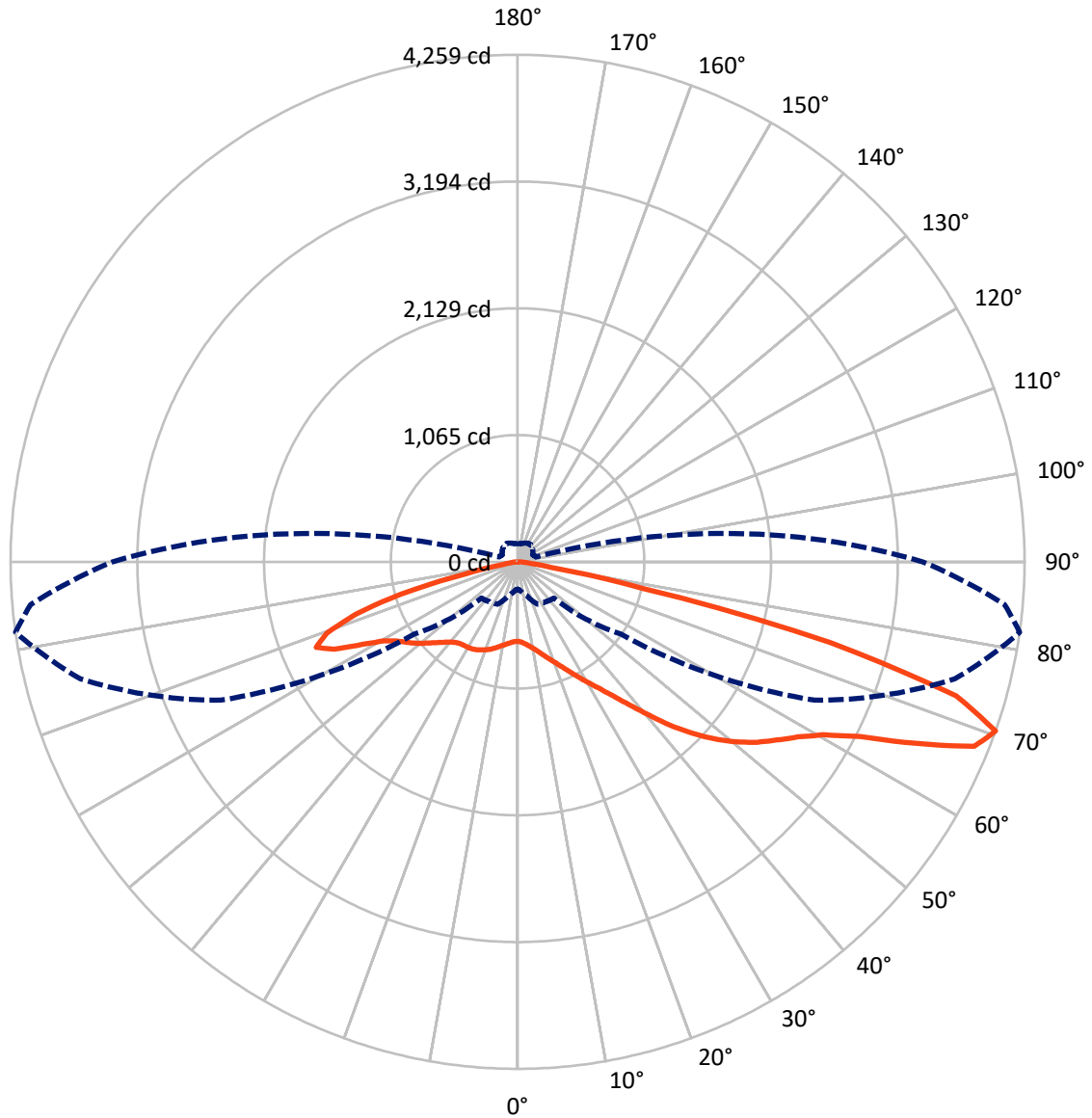
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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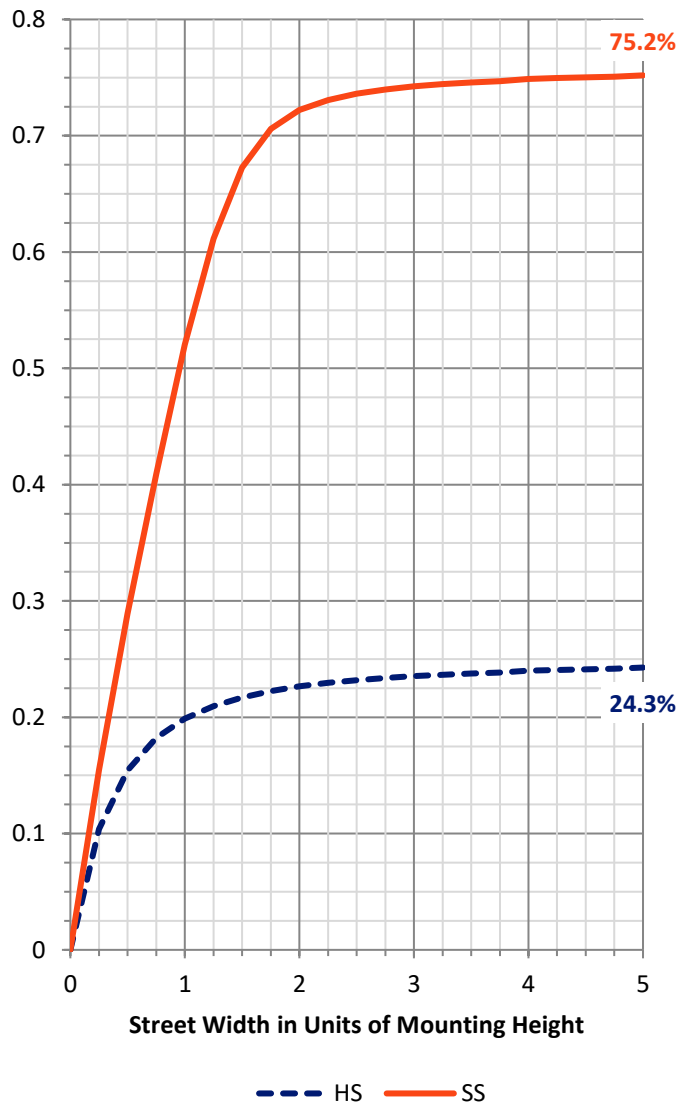
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1123.4	0.0	1123.4
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	3433.7	0.0	3433.7
	% Fixture	75.3	0.0	75.3
Total	Lumens	4557.2	0.0	4557.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.1	1.4
10°-20°	181.2	4.0
20°-30°	303.2	6.7
30°-40°	473.7	10.4
40°-50°	754.4	16.6
50°-60°	1049.8	23.0
60°-70°	1098.2	24.1
70°-80°	574.0	12.6
80°-90°	59.6	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°	4557.2	100.0
0°-180°	4557.2	100.0

Coefficient of Utilization

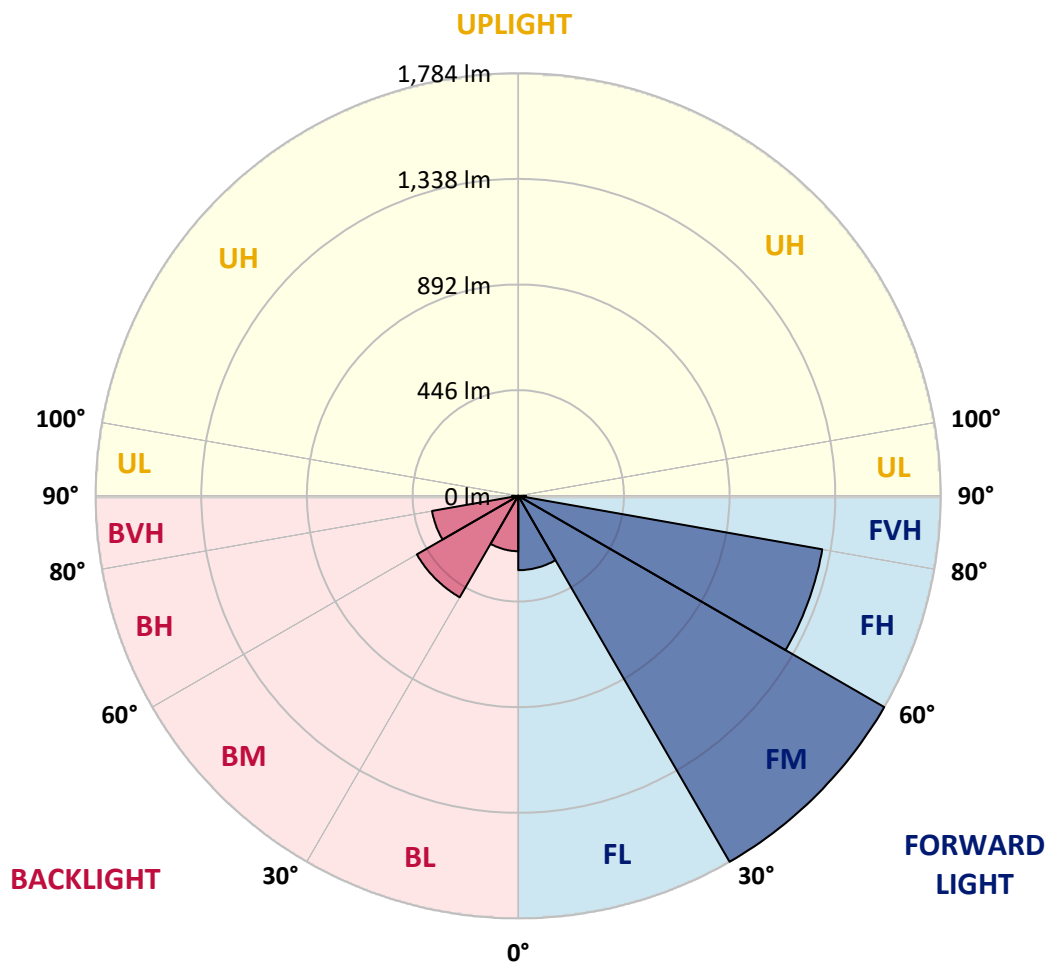


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	313.8	6.9			
FM (30°-60°)	1783.6	39.1			
FH (60°-80°)	1302.9	28.6			G1/1800
FVH (80°-90°)	33.4	0.7			G1/100
BL (0°-30°)	233.7	5.1	B1/500		
BM (30°-60°)	494.3	10.8	B1/1000		
BH (60°-80°)	369.2	8.1	B1/500		G1/500
BVH (80°-90°)	26.2	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	668.1	668.1	668.1	668.1	668.1	668.1	668.1	668.1	668.1	668.1	668.1
2.5°	684.1	688.0	686.7	685.5	685.5	683.9	683.6	681.2	679.3	676.1	675.4
5°	692.8	696.9	696.4	697.4	700.6	701.3	702.0	700.6	696.7	692.8	691.2
7.5°	685.1	689.6	691.2	696.9	706.6	715.2	721.8	724.5	720.9	715.2	712.6
10°	659.0	664.0	669.1	682.9	700.1	720.6	738.0	748.5	747.7	742.4	737.8
12.5°	606.0	611.3	622.2	649.0	680.5	716.8	749.2	770.9	778.4	774.5	766.6
15°	563.6	568.3	576.5	604.0	644.9	700.1	753.3	795.6	814.7	812.5	802.8
17.5°	562.4	564.4	569.5	582.5	614.0	673.9	748.9	819.8	856.3	856.0	844.0
20°	583.7	584.5	587.3	590.0	607.9	654.2	737.8	839.8	902.9	902.9	889.9
22.5°	613.3	612.7	615.6	613.3	622.0	652.4	730.7	857.5	954.9	958.8	942.4
25°	657.5	655.1	654.4	648.8	650.5	668.1	738.5	877.5	1016.6	1024.6	1004.0
27.5°	716.5	712.6	710.0	697.1	692.8	700.6	762.2	901.7	1085.3	1099.0	1073.0
30°	793.3	786.4	782.5	760.2	744.6	745.8	798.0	933.9	1157.1	1179.4	1146.2
32.5°	898.3	887.4	877.1	840.5	811.8	802.4	844.2	978.4	1234.9	1270.5	1227.9
35°	1015.9	1007.2	996.0	939.7	895.4	873.7	906.6	1040.6	1326.1	1382.4	1327.1
37.5°	1129.0	1121.6	1126.9	1050.9	993.8	962.2	988.3	1123.9	1438.6	1521.7	1451.4
40°	1246.1	1240.2	1241.0	1168.5	1102.0	1066.4	1087.4	1228.7	1567.4	1687.4	1600.8
42.5°	1373.3	1368.9	1354.4	1290.1	1215.3	1182.2	1201.6	1349.6	1705.8	1876.0	1764.7
45°	1515.7	1513.0	1499.5	1425.8	1340.2	1302.9	1329.0	1483.1	1844.8	2053.5	1929.5
47.5°	1638.8	1640.9	1639.3	1577.2	1488.4	1433.8	1464.9	1622.4	1974.2	2220.4	2087.3
50°	1698.0	1709.4	1726.1	1706.7	1651.6	1596.0	1602.1	1756.7	2097.5	2376.8	2238.7
52.5°	1667.1	1688.6	1734.1	1765.0	1786.3	1774.7	1758.5	1890.3	2213.6	2518.0	2381.9
55°	1551.7	1582.0	1657.4	1732.1	1840.7	1925.1	1946.4	2038.2	2326.8	2642.3	2517.3
57.5°	1341.6	1390.7	1458.4	1609.6	1792.3	1997.8	2165.4	2243.5	2446.7	2775.1	2659.0
60°	981.3	1047.0	1131.2	1356.1	1623.1	1959.0	2351.9	2558.9	2617.1	2947.0	2843.6
62.5°	628.0	668.6	746.0	957.9	1264.6	1759.4	2409.0	2953.0	2906.2	3229.0	3120.1
65°	430.0	456.0	527.0	645.9	817.5	1309.6	2256.1	3248.5	3365.1	3675.9	3593.1
67.5°	312.4	332.3	392.7	496.9	532.7	775.0	1750.7	3235.0	3811.3	4136.3	4007.6
70°	227.8	241.8	292.6	392.7	409.9	431.1	1060.6	2750.0	3801.6	4258.6	4104.6
72.5°	168.8	178.5	212.6	304.7	331.8	291.1	525.0	1998.6	3266.7	3851.8	3728.3
75°	122.1	129.4	154.6	233.1	265.5	221.7	261.9	1168.0	2278.6	2709.6	2731.3
77.5°	93.4	98.9	115.3	170.8	212.6	166.4	162.5	537.3	1080.5	1085.8	1146.7
80°	74.9	78.6	87.5	120.2	163.0	124.5	105.9	216.9	341.4	288.9	303.2
82.5°	55.1	61.2	74.0	84.4	116.5	85.9	64.6	109.6	129.9	111.7	112.6
85°	31.5	35.6	44.7	60.5	74.5	52.5	37.0	48.6	60.5	49.6	44.3
87.5°	11.2	14.6	15.7	23.7	32.4	21.7	14.2	14.0	19.8	14.8	12.3
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°	668.1	668.1	668.1	668.1	668.1	668.1	668.1	668.1	668.1	668.1	668.1
2.5°	673.0	671.8	667.0	660.4	653.6	647.1	644.9	640.3	637.1	635.5	637.4
5°	686.5	682.6	671.3	656.8	641.5	625.0	613.5	602.8	595.1	587.8	590.7
7.5°	705.8	699.0	679.5	654.2	627.0	599.7	579.4	564.0	553.5	546.7	548.2
10°	728.4	717.9	688.0	650.0	608.1	569.0	545.1	531.8	525.2	521.6	522.5
12.5°	754.2	739.4	696.7	640.5	579.4	534.6	518.2	514.3	514.6	514.9	515.3
15°	786.2	765.6	703.7	620.0	541.9	508.3	505.4	511.7	518.2	521.3	521.1
17.5°	822.2	793.1	704.9	586.2	505.1	491.4	500.5	514.1	524.0	528.4	529.3
20°	860.9	821.2	696.2	538.3	474.9	477.5	494.0	511.5	522.3	527.9	529.3
22.5°	905.1	851.2	675.4	488.0	450.3	462.6	482.0	498.9	510.2	515.8	517.2
25°	955.6	884.8	642.8	445.7	429.0	445.7	465.0	479.1	488.2	493.3	494.8
27.5°	1011.8	919.8	599.2	412.0	410.4	428.2	444.2	455.1	459.9	463.8	465.2
30°	1068.0	951.8	546.5	386.6	394.1	411.1	422.4	427.3	428.8	429.5	431.1
32.5°	1129.0	979.4	491.1	365.6	378.6	394.4	401.2	403.3	396.6	392.0	393.4
35°	1202.8	1008.8	437.0	348.9	363.5	377.0	379.1	377.2	369.2	359.8	360.3
37.5°	1294.0	1045.6	393.7	337.1	349.2	358.1	355.5	355.0	355.7	344.6	345.3
40°	1405.7	1093.5	362.0	327.9	337.5	339.5	332.0	336.1	339.8	322.8	323.3
42.5°	1529.7	1151.3	341.9	321.6	327.9	323.3	311.7	316.3	315.8	293.6	293.4
45°	1656.2	1214.1	334.9	317.0	319.0	309.8	296.9	298.2	288.0	267.9	268.7
47.5°	1782.0	1281.7	339.3	313.1	307.8	297.5	287.5	282.2	267.2	252.3	252.3
50°	1905.3	1352.5	355.3	305.4	292.6	286.6	279.3	269.9	253.9	241.1	240.2
52.5°	2019.7	1423.8	373.1	292.6	273.5	277.2	272.5	261.7	245.9	232.9	233.1
55°	2128.0	1495.2	380.2	274.9	255.6	268.9	266.2	246.2	227.3	216.7	215.7
57.5°	2246.0	1581.0	372.4	252.5	241.1	259.4	249.3	227.0	216.2	208.2	207.5
60°	2409.5	1715.6	355.7	224.7	227.3	245.5	228.1	218.8	206.9	198.0	197.5
62.5°	2681.0	1967.0	328.8	197.1	211.2	224.7	217.9	208.7	196.6	187.9	187.9
65°	3082.4	2316.1	278.3	175.6	193.0	204.4	206.9	197.8	185.2	176.0	176.5
67.5°	3420.9	2535.2	210.6	157.6	174.4	187.9	195.4	186.4	173.1	164.2	164.4
70°	3402.4	2376.1	160.8	140.0	158.0	171.7	181.3	174.4	160.1	151.6	152.3
72.5°	3022.0	1987.7	130.1	122.1	141.2	154.8	166.4	161.0	146.6	138.3	138.3
75°	2220.1	1411.0	103.9	103.9	120.4	137.1	150.0	146.6	133.2	127.4	125.8
77.5°	935.8	591.9	81.5	86.3	100.1	117.8	133.8	134.9	123.3	130.6	118.5
80°	248.9	163.2	62.1	68.0	78.6	97.2	116.3	115.8	103.2	96.5	89.7
82.5°	94.8	64.4	44.3	47.9	56.8	74.5	92.1	95.0	82.4	71.3	71.3
85°	36.5	27.6	27.4	28.8	33.1	49.3	69.6	72.1	62.1	52.7	54.4
87.5°	9.4	8.2	10.1	9.6	15.3	26.3	39.9	41.3	37.9	22.0	31.5
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)