

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: P959289

Luminaire Tested: **NAV-SB1A-735-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959289
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-735-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4495.7 lumens
Efficiency: N/A
Efficacy: 145.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

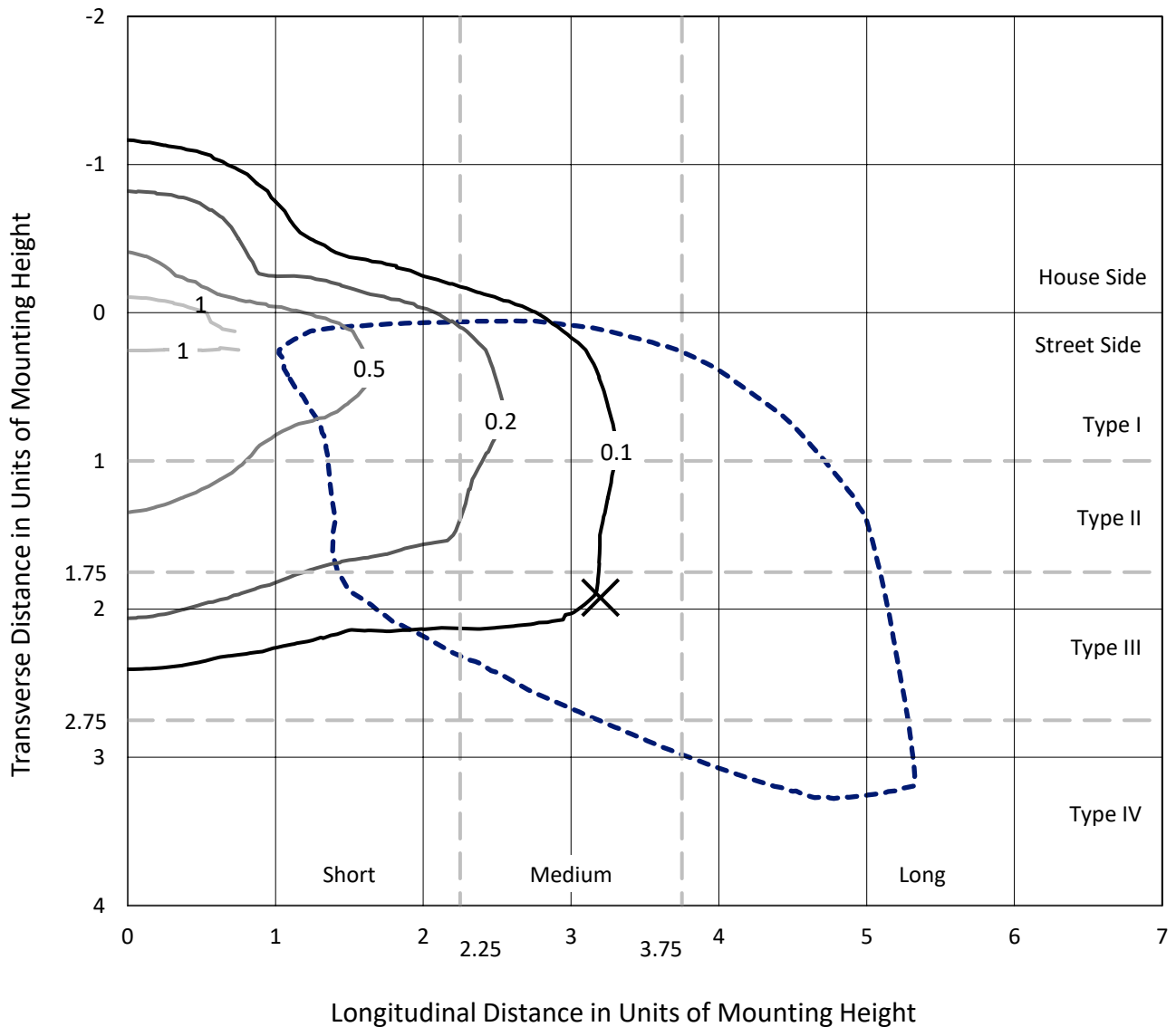
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

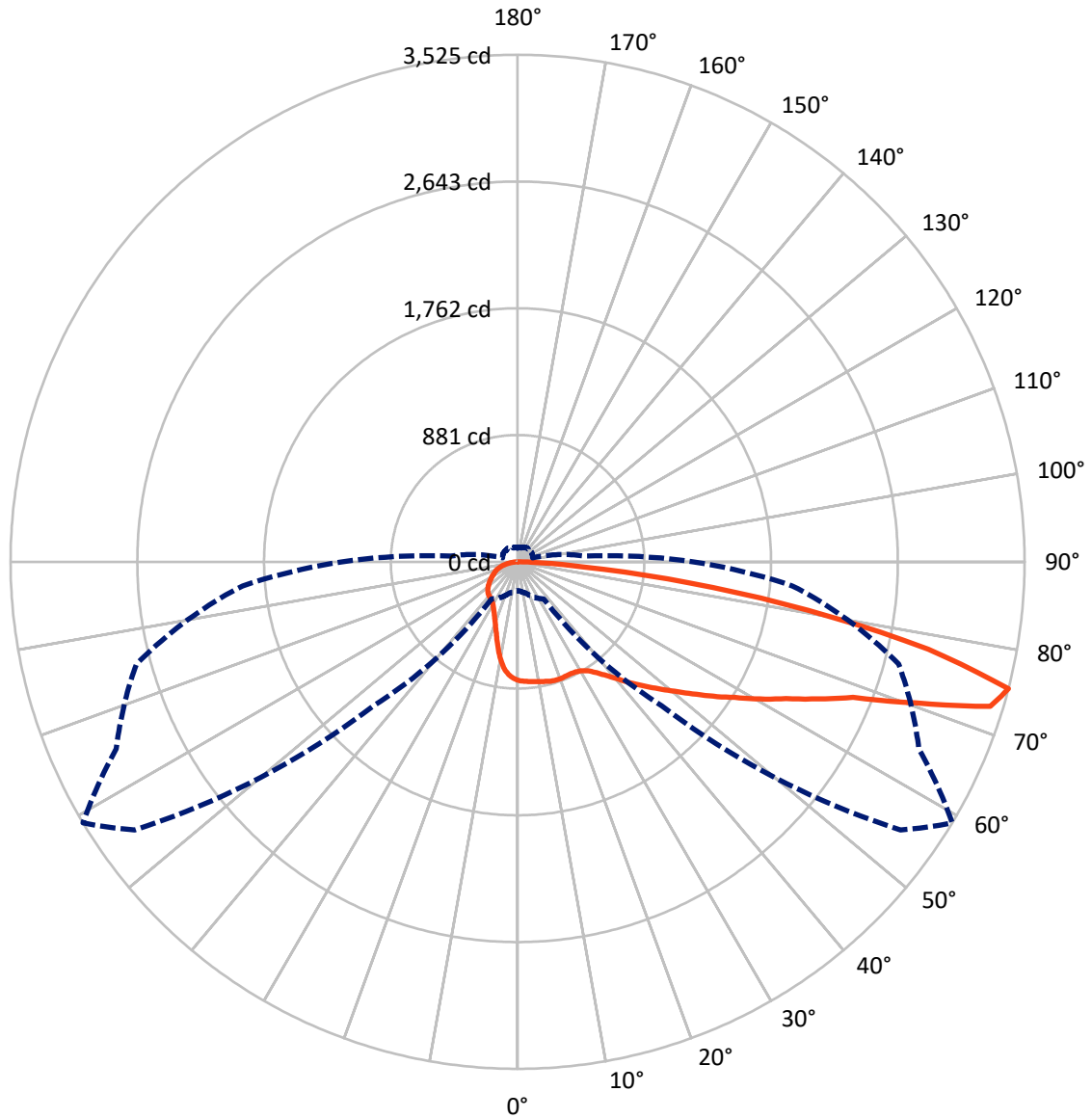
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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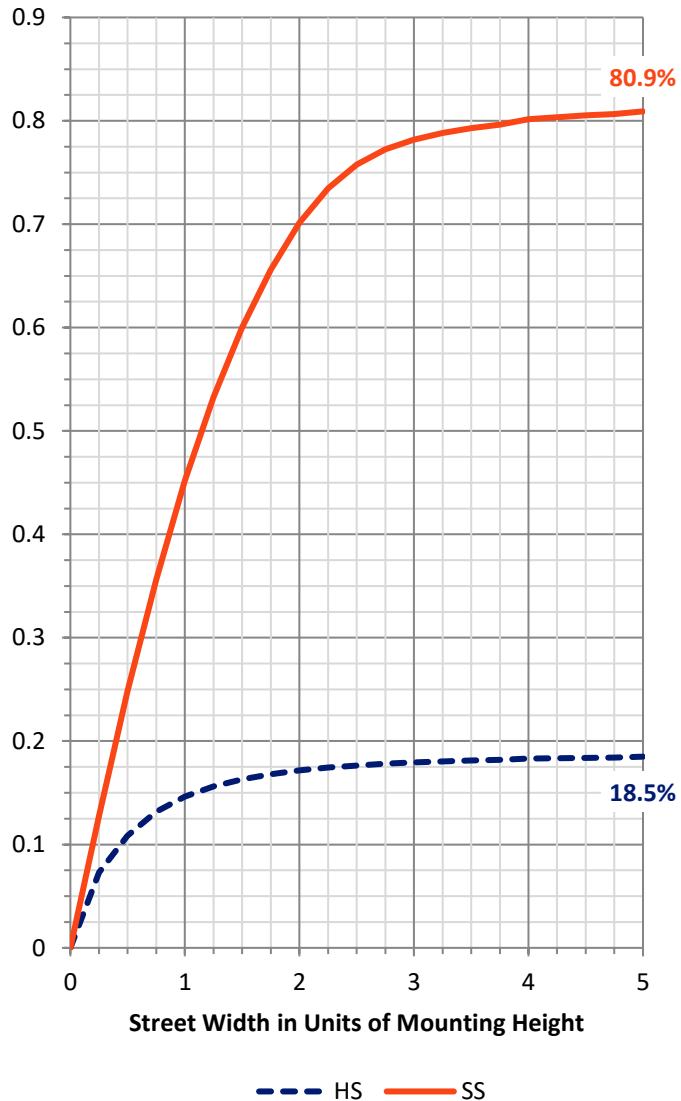
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	843.2	0.0	843.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	3652.5	0.0	3652.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	4495.7	0.0	4495.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.0	1.6
10°-20°	189.1	4.2
20°-30°	287.3	6.4
30°-40°	427.0	9.5
40°-50°	635.0	14.1
50°-60°	862.0	19.2
60°-70°	1052.3	23.4
70°-80°	825.9	18.4
80°-90°	143.1	3.2
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°	4495.7	100.0
0°-180°	4495.7	100.0

Coefficient of Utilization

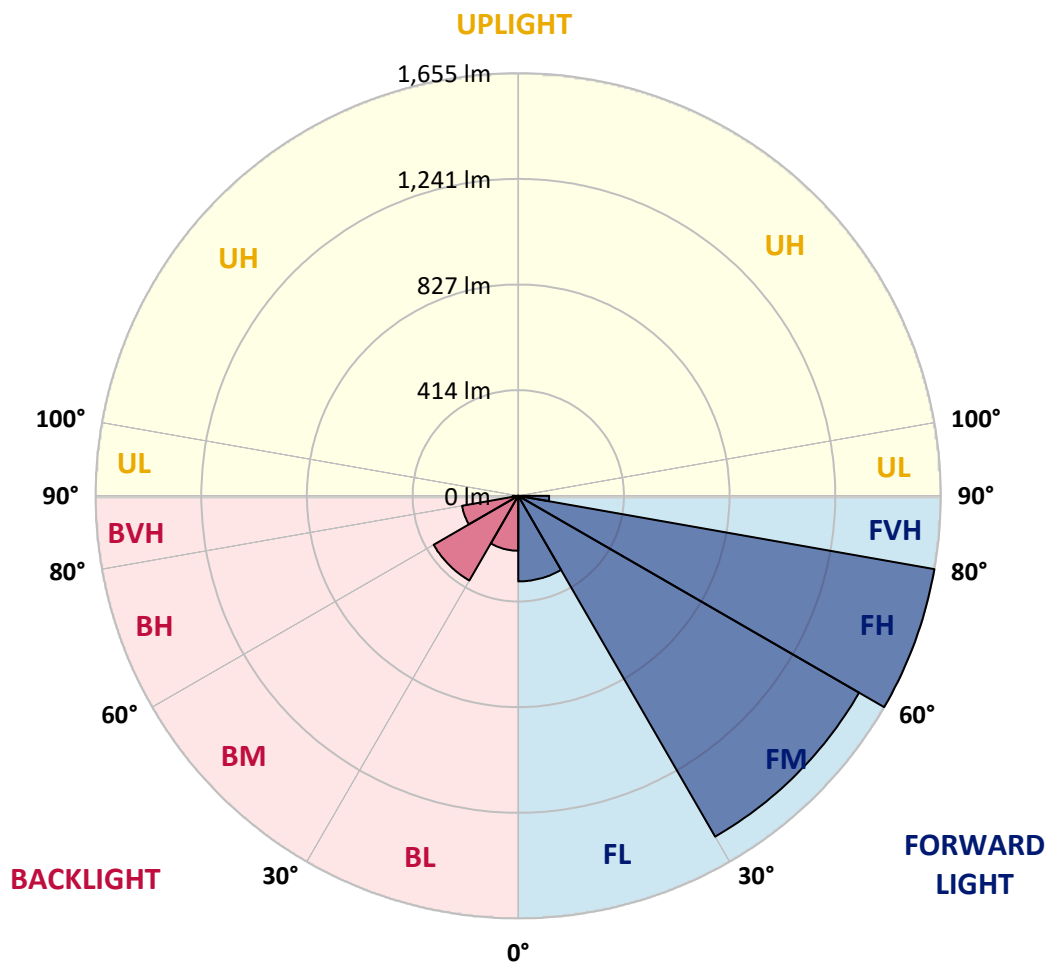


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	335.2	7.5			
FM (30°-60°)	1541.3	34.3			
FH (60°-80°)	1654.8	36.8			G1/1800
FVH (80°-90°)	121.2	2.7			G2/225
BL (0°-30°)	215.2	4.8	B1/500		
BM (30°-60°)	382.7	8.5	B1/1000		
BH (60°-80°)	223.4	5.0	B1/500		G1/500
BVH (80°-90°)	21.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	825.1	825.1	825.1	825.1	825.1	825.1	825.1	825.1	825.1	825.1	825.1
2.5°	832.2	829.3	832.2	831.0	830.5	829.5	829.7	831.5	830.5	831.7	827.6
5°	826.7	824.9	827.8	827.1	830.2	830.8	833.8	835.8	837.0	837.2	834.1
7.5°	817.4	815.7	819.8	823.3	830.0	831.9	838.4	841.6	843.3	846.2	841.6
10°	783.8	783.1	793.2	806.1	822.0	831.9	841.8	847.2	849.8	857.6	852.3
12.5°	724.4	725.3	738.6	763.2	795.2	827.1	845.7	853.4	857.6	867.3	864.8
15°	667.5	667.3	681.7	708.1	752.9	805.9	847.7	861.0	868.0	882.2	880.3
17.5°	634.6	633.7	643.8	663.9	705.4	773.2	842.9	865.1	880.1	898.0	896.3
20°	628.5	626.6	631.9	641.9	671.4	737.4	830.2	865.1	889.7	913.0	911.9
22.5°	650.6	647.4	645.2	644.0	657.1	707.9	816.0	862.1	904.0	934.5	932.7
25°	694.8	689.9	678.9	668.0	664.1	694.5	803.4	861.4	925.3	963.5	957.2
27.5°	766.4	760.3	737.9	711.8	688.3	701.3	797.9	865.8	948.7	994.2	981.6
30°	855.2	848.6	820.3	780.2	738.1	726.5	804.8	878.6	978.8	1035.0	1010.4
32.5°	934.7	927.4	903.3	862.4	805.5	770.0	827.1	903.0	1025.9	1091.9	1053.7
35°	1005.3	996.9	975.1	937.4	888.3	831.2	867.3	946.3	1092.9	1184.3	1112.4
37.5°	1074.5	1064.6	1040.9	1001.0	966.7	912.8	922.6	1001.9	1181.9	1296.5	1190.3
40°	1151.9	1137.6	1108.8	1069.4	1036.1	1008.3	995.4	1070.2	1272.3	1421.8	1287.6
42.5°	1226.8	1213.3	1179.0	1145.3	1103.5	1095.5	1079.8	1149.9	1371.2	1559.4	1386.2
45°	1307.6	1291.4	1249.9	1207.2	1180.9	1153.6	1161.5	1229.8	1468.2	1699.7	1489.7
47.5°	1383.3	1365.2	1316.1	1268.7	1254.2	1202.4	1236.6	1317.5	1569.1	1841.8	1592.3
50°	1424.2	1406.3	1365.4	1322.7	1311.3	1262.7	1317.8	1414.1	1674.7	1983.6	1690.7
52.5°	1458.3	1439.0	1385.5	1361.8	1358.4	1328.2	1417.9	1524.4	1780.4	2108.8	1785.8
55°	1494.6	1473.0	1404.9	1383.5	1399.0	1401.7	1536.7	1649.3	1892.2	2231.0	1875.4
57.5°	1536.5	1509.1	1423.5	1402.0	1438.7	1487.8	1673.1	1779.0	2001.9	2344.2	1955.3
60°	1575.8	1548.3	1459.3	1431.2	1481.5	1587.7	1829.5	1935.9	2126.3	2445.0	2030.7
62.5°	1583.6	1560.9	1487.8	1487.6	1539.6	1704.3	2014.7	2094.4	2234.9	2544.7	2098.5
65°	1449.6	1435.3	1392.1	1485.4	1622.8	1872.1	2221.1	2297.0	2373.0	2631.7	2157.9
67.5°	1103.3	1105.3	1102.1	1282.3	1555.5	2113.2	2519.8	2513.9	2543.4	2729.5	2226.4
70°	504.5	515.9	589.9	885.2	1246.2	2141.0	3013.6	2938.4	2757.5	2856.0	2285.6
72.5°	272.5	281.3	311.5	428.8	749.3	1903.5	3382.6	3436.1	3042.1	2941.0	2220.6
75°	200.0	204.8	225.9	272.5	314.7	1414.8	3250.4	3524.6	3077.7	2742.5	1917.6
77.5°	149.6	151.9	169.0	216.0	161.0	745.9	2597.1	2919.0	2634.7	2253.3	1416.4
80°	108.5	111.0	123.8	162.1	113.0	272.8	1783.4	2048.9	1804.4	1436.3	705.9
82.5°	74.9	76.0	81.5	110.3	78.8	105.9	1011.9	1201.5	1007.3	504.0	190.5
85°	45.2	46.4	48.9	64.4	44.7	50.3	436.8	451.7	301.1	120.4	59.2
87.5°	18.7	19.8	21.7	27.1	17.6	14.0	72.1	90.4	56.4	35.3	18.3
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°	825.1	825.1	825.1	825.1	825.1	825.1	825.1	825.1	825.1	825.1	825.1
2.5°	826.4	824.7	820.1	813.8	808.0	800.7	797.6	794.9	792.5	787.9	785.8
5°	831.5	826.9	814.6	798.6	780.4	760.6	741.3	728.0	716.6	708.1	701.1
7.5°	839.2	830.5	808.0	775.3	733.8	691.2	652.7	625.5	604.9	597.4	584.2
10°	847.2	836.8	797.6	740.0	668.2	602.7	551.7	523.6	507.2	501.8	493.6
12.5°	856.6	841.3	781.4	691.0	594.9	523.1	478.6	462.2	453.7	450.8	451.5
15°	870.4	845.2	757.0	629.6	525.0	465.0	436.2	425.0	420.6	420.4	421.3
17.5°	880.8	845.9	719.0	563.8	471.4	430.0	406.3	401.9	404.9	409.2	410.9
20°	892.4	839.5	669.2	503.8	433.6	399.2	389.4	392.3	399.2	405.6	407.7
22.5°	900.7	827.6	609.0	457.0	401.0	381.6	381.1	387.1	391.0	394.2	395.9
25°	907.8	807.5	545.1	417.9	374.1	370.9	376.3	374.3	371.7	374.3	376.1
27.5°	913.2	775.8	488.0	383.6	355.3	363.8	360.6	356.2	356.0	357.4	359.9
30°	911.5	733.5	441.2	351.0	341.9	350.1	342.7	341.9	341.2	341.9	344.6
32.5°	911.5	685.4	405.1	328.4	333.5	330.4	329.6	327.9	325.0	324.8	327.9
35°	916.6	637.2	374.1	316.3	326.5	319.0	319.5	315.4	309.3	306.4	309.3
37.5°	927.0	598.6	343.4	310.6	314.2	314.0	312.0	304.9	294.3	285.2	288.2
40°	952.1	587.2	322.4	307.9	308.3	311.3	306.2	292.6	268.4	253.5	255.4
42.5°	991.6	606.3	317.8	301.3	304.5	307.4	297.5	266.0	248.9	240.0	240.0
45°	1041.6	639.7	327.7	291.9	295.3	300.3	270.9	255.8	248.2	248.4	249.6
47.5°	1104.9	674.8	346.0	283.7	282.0	284.8	253.2	244.1	233.4	236.1	242.8
50°	1178.2	710.3	363.5	272.5	267.2	257.8	241.8	233.1	219.6	213.3	215.0
52.5°	1257.6	744.7	370.5	259.0	251.2	240.4	234.1	223.4	207.0	196.6	196.4
55°	1332.8	775.8	362.7	242.8	235.3	226.8	225.9	219.4	201.7	187.2	187.2
57.5°	1403.9	802.0	343.4	226.3	219.1	214.0	220.6	217.4	195.2	176.5	175.6
60°	1464.1	819.8	315.4	209.7	204.6	201.9	211.9	210.8	185.9	165.1	164.4
62.5°	1512.0	826.9	284.4	193.7	192.5	187.7	199.8	199.8	174.4	154.1	153.3
65°	1549.5	820.1	253.0	178.0	180.4	173.1	185.0	183.6	162.1	144.1	143.2
67.5°	1582.6	797.9	218.1	162.6	168.1	158.9	169.5	166.2	148.5	134.2	133.2
70°	1597.4	746.1	178.5	147.1	153.9	144.8	154.1	147.8	133.2	123.6	121.7
72.5°	1478.9	620.1	140.5	130.8	136.6	129.4	137.4	130.1	116.8	112.4	108.9
75°	1223.4	465.4	108.1	113.2	117.6	111.9	117.3	111.9	99.8	103.0	94.1
77.5°	888.6	314.2	82.7	94.6	96.5	93.6	98.2	92.1	81.3	80.6	76.9
80°	441.9	184.1	64.8	74.7	74.0	72.1	77.4	74.5	65.3	69.2	68.5
82.5°	127.9	78.8	47.2	52.5	51.0	51.6	55.4	56.8	85.2	84.4	86.3
85°	40.2	31.0	28.3	29.2	27.8	28.5	32.7	64.8	60.0	35.1	37.9
87.5°	10.4	10.7	7.0	7.5	7.8	9.2	10.4	39.5	18.9	12.3	13.0
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)