

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: P960321

Luminaire Tested: **NAV-SB1C-730-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960321
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-SB1C-730-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6501.6 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

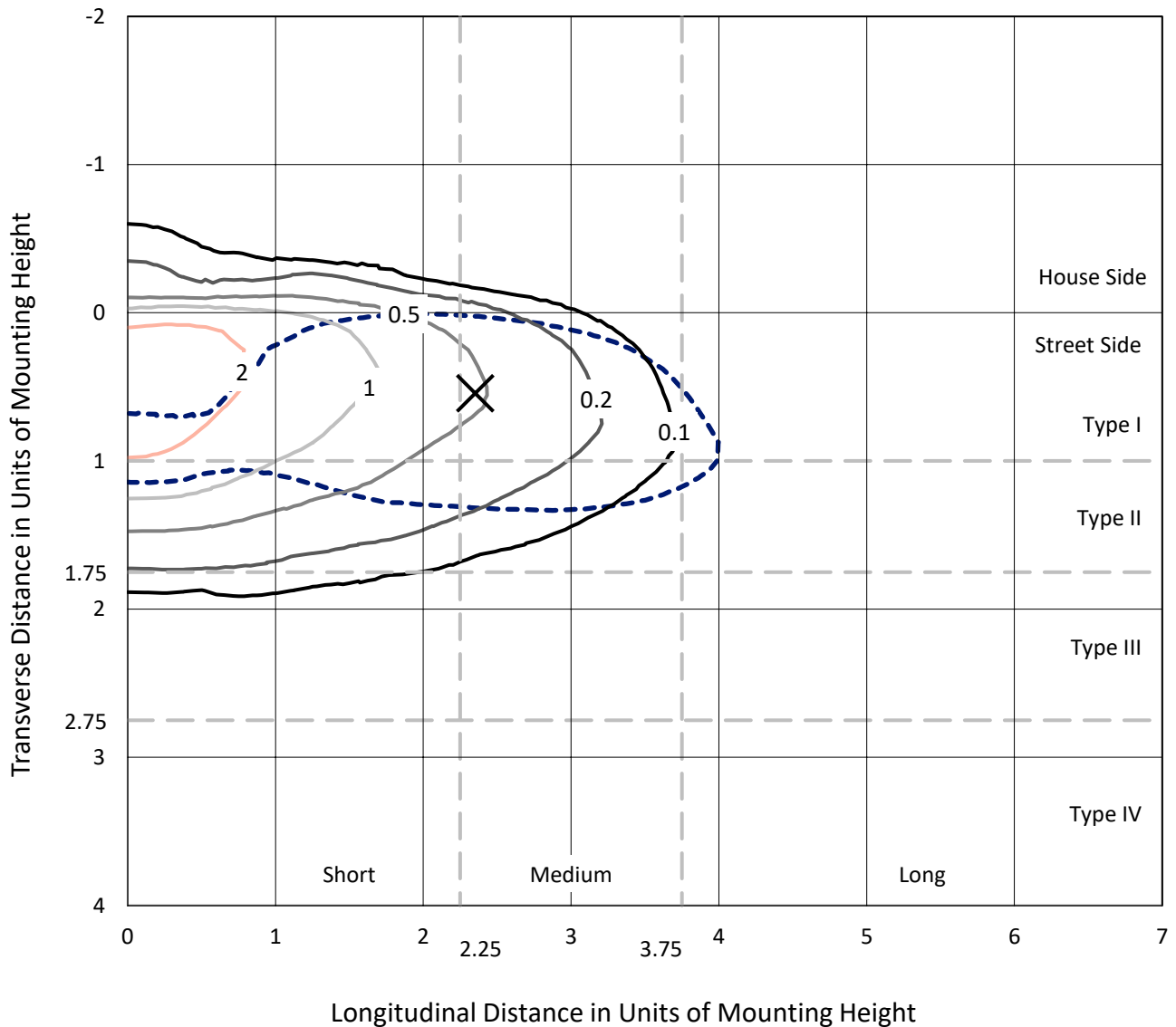
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

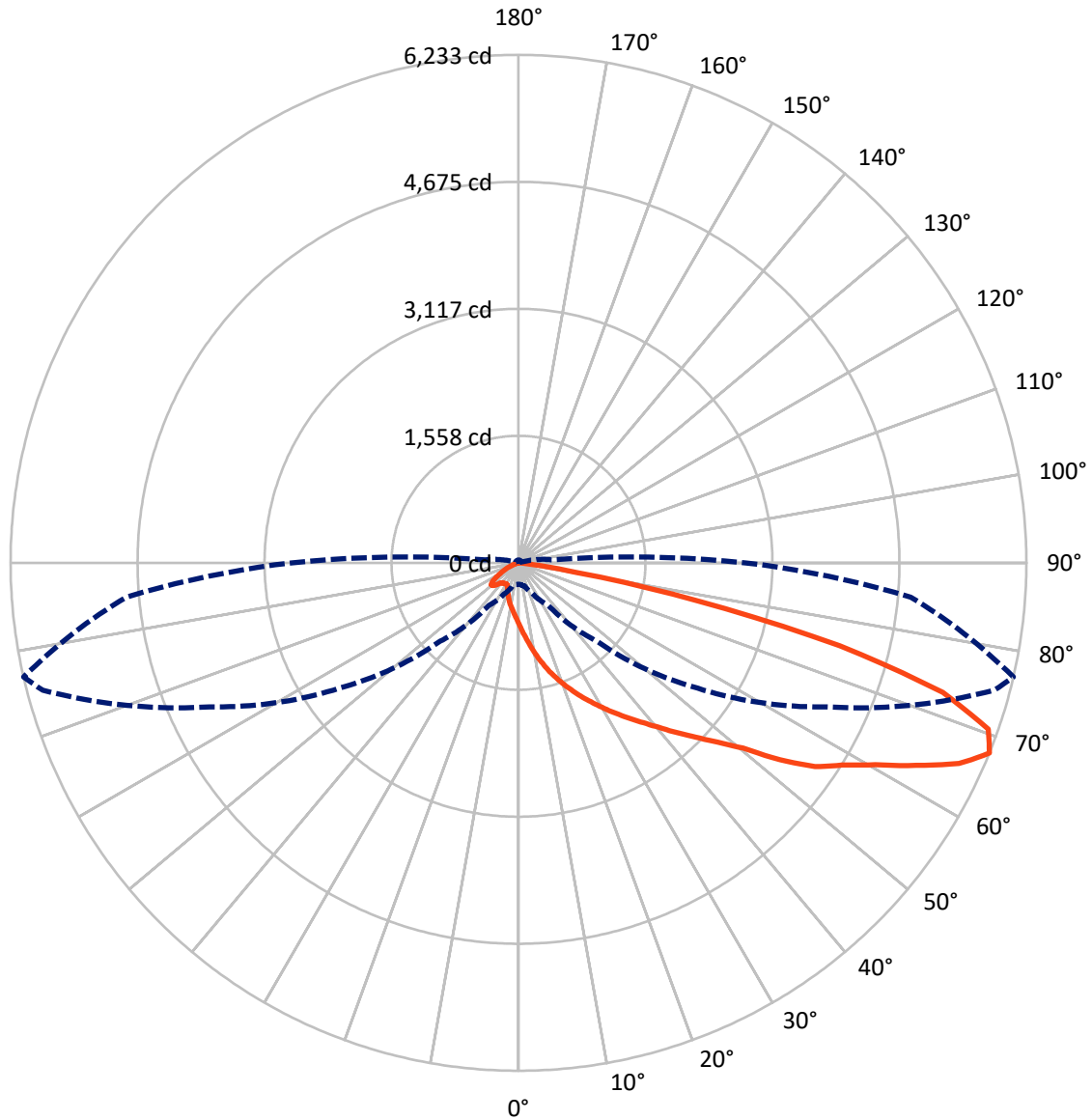
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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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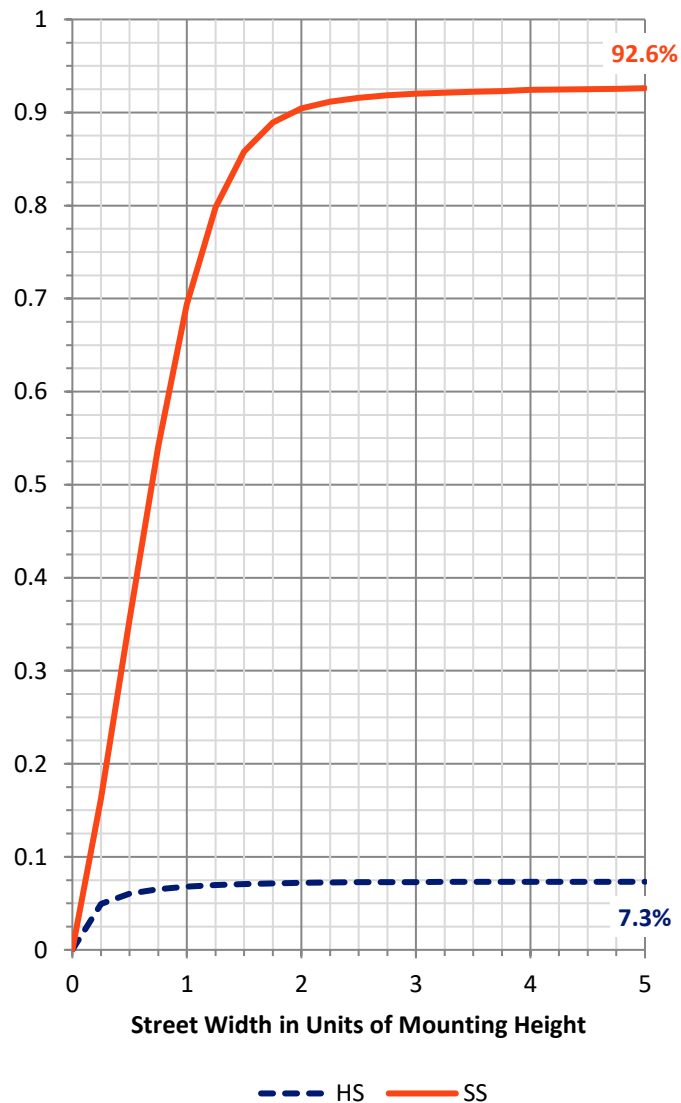
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	478.3	0.0	478.3
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	6023.3	0.0	6023.3
	% Fixture	92.6	0.0	92.6
Total	Lumens	6501.6	0.0	6501.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.5	1.2
10°-20°	268.0	4.1
20°-30°	517.1	8.0
30°-40°	897.7	13.8
40°-50°	1303.5	20.0
50°-60°	1496.9	23.0
60°-70°	1299.6	20.0
70°-80°	612.1	9.4
80°-90°	30.3	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°	6501.6	100.0
0°-180°	6501.6	100.0

Coefficient of Utilization

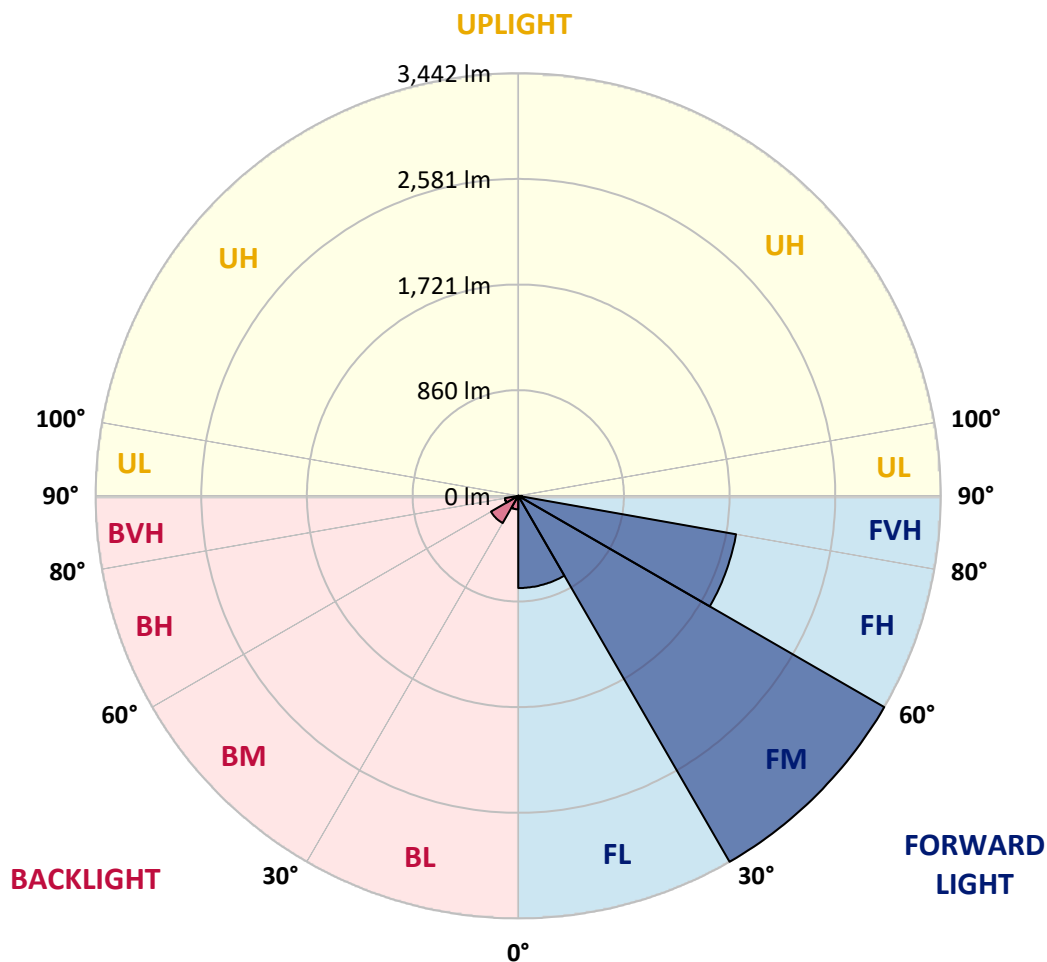


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	750.9	11.5			
FM (30°-60°)	3441.8	52.9			
FH (60°-80°)	1800.9	27.7			G2/5000
FVH (80°-90°)	29.7	0.5			G1/100
BL (0°-30°)	110.7	1.7	B1/500		
BM (30°-60°)	256.3	3.9	B1/1000		
BH (60°-80°)	110.7	1.7	B1/500		G1/500
BVH (80°-90°)	0.6	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-G2
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	749.7	749.7	749.7	749.7	749.7	749.7	749.7	749.7	749.7	749.7	749.7
2.5°	1038.0	1044.5	1035.1	1017.4	990.8	973.4	931.0	891.0	846.6	832.5	788.1
5°	1265.3	1270.9	1260.4	1241.1	1205.5	1171.6	1115.9	1032.4	945.6	917.7	839.0
7.5°	1433.7	1436.8	1432.8	1415.1	1381.2	1342.9	1280.6	1181.7	1052.9	1022.2	901.5
10°	1554.7	1565.3	1564.0	1557.2	1534.6	1503.5	1437.3	1324.6	1173.2	1133.6	972.2
12.5°	1635.1	1646.8	1653.6	1669.0	1667.8	1648.0	1589.9	1470.8	1293.1	1246.7	1051.8
15°	1658.6	1671.1	1697.3	1732.8	1764.3	1774.4	1733.6	1614.1	1425.2	1365.8	1133.2
17.5°	1645.2	1664.6	1696.1	1752.2	1821.2	1866.8	1862.4	1752.5	1545.1	1477.2	1213.2
20°	1674.6	1693.2	1717.9	1765.2	1845.4	1928.2	1961.3	1885.0	1664.2	1593.2	1297.1
22.5°	1837.8	1834.5	1837.0	1844.7	1892.7	1974.7	2042.8	2005.3	1782.1	1709.4	1386.0
25°	2096.1	2081.7	2057.0	2015.5	2003.3	2042.8	2114.0	2111.9	1906.4	1828.5	1476.8
27.5°	2392.6	2390.1	2332.4	2232.2	2175.7	2160.4	2194.3	2215.6	2029.6	1946.4	1568.0
30°	2676.4	2682.8	2604.8	2493.4	2389.7	2329.5	2298.9	2314.1	2154.8	2073.6	1662.1
32.5°	2923.4	2930.3	2845.5	2715.1	2586.7	2514.0	2449.4	2411.5	2291.2	2202.7	1765.6
35°	3132.1	3139.0	3041.7	2897.6	2760.7	2694.9	2621.8	2518.0	2428.4	2346.1	1880.6
37.5°	3318.6	3316.7	3186.2	3040.9	2906.5	2854.4	2816.0	2649.3	2569.8	2490.2	2008.2
40°	3428.9	3437.3	3325.9	3165.6	3035.2	2997.3	2994.8	2812.0	2732.9	2655.8	2147.9
42.5°	3461.2	3476.1	3395.4	3263.8	3145.4	3104.3	3167.7	2988.0	2922.6	2847.6	2305.7
45°	3403.0	3417.6	3380.9	3289.6	3220.5	3193.9	3316.3	3170.5	3125.3	3051.0	2483.8
47.5°	3233.5	3251.6	3260.5	3241.2	3240.3	3267.4	3449.4	3362.7	3365.9	3290.0	2690.0
50°	2905.3	2935.9	3017.5	3086.1	3192.3	3325.5	3579.1	3571.0	3637.2	3571.8	2959.0
52.5°	2308.5	2352.2	2633.1	2820.9	3059.4	3314.6	3721.6	3905.2	4113.2	4017.5	3338.0
55°	1855.1	1855.1	2083.6	2434.9	2800.3	3242.8	3783.8	4122.4	4437.4	4414.8	3604.9
57.5°	1512.4	1530.5	1676.3	1986.8	2425.3	3071.6	3822.1	4259.0	4698.6	4682.1	3865.7
60°	933.5	972.6	1247.9	1554.4	1998.4	2766.8	3797.9	4397.0	5015.5	5028.9	4179.8
62.5°	525.6	540.2	663.0	1118.4	1554.0	2357.0	3612.6	4474.1	5420.9	5477.4	4503.6
65°	363.0	370.2	417.5	696.1	1077.2	1876.6	3250.5	4426.1	5827.0	5941.3	4778.1
67.5°	263.6	267.3	296.7	425.2	639.1	1360.6	2682.8	4183.8	6042.3	6233.2	4830.6
70°	202.6	205.1	226.5	279.4	377.5	839.8	1948.4	3702.2	5886.4	6114.5	4561.8
72.5°	164.7	167.2	183.7	206.7	250.3	496.6	1180.9	3006.5	5198.4	5444.7	3883.5
75°	138.9	142.1	157.0	172.0	196.2	319.0	553.9	2093.8	3909.3	4070.8	2700.6
77.5°	77.1	71.0	127.6	142.5	165.5	201.8	259.2	1232.2	2189.4	2234.2	1198.2
80°	48.1	49.6	101.4	114.7	127.2	101.8	118.7	474.4	759.0	721.1	232.2
82.5°	2.9	6.5	77.9	82.7	87.2	43.6	44.8	161.1	182.9	168.0	41.2
85°	0.0	0.0	35.6	28.7	30.2	12.5	12.9	37.5	24.6	26.6	8.1
87.5°	0.0	0.0	0.0	0.8	0.0	1.2	2.5	3.3	1.2	1.6	2.9
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°	749.7	749.7	749.7	749.7	749.7	749.7	749.7	749.7	749.7	749.7	749.7
2.5°	759.8	731.5	674.2	618.1	572.5	530.1	499.8	471.2	456.6	455.8	455.0
5°	782.8	723.4	608.8	507.5	425.9	360.5	318.2	287.8	272.5	267.3	266.5
7.5°	815.2	725.9	551.4	410.6	314.5	258.4	234.2	224.5	221.2	217.6	216.8
10°	855.9	731.5	500.2	330.7	247.8	219.7	209.9	205.9	203.5	201.1	200.3
12.5°	901.5	736.8	449.4	274.5	218.0	203.5	196.6	191.8	188.5	185.7	184.9
15°	946.0	740.0	396.5	235.3	202.6	191.0	183.7	178.5	174.0	170.8	170.4
17.5°	989.9	744.5	346.8	212.0	190.1	178.5	171.2	164.7	161.1	157.4	157.0
20°	1038.8	743.6	300.0	195.4	177.6	165.9	158.3	152.2	148.5	144.5	144.1
22.5°	1084.0	739.6	258.8	181.3	164.7	153.4	144.9	138.9	135.3	132.0	131.6
25°	1136.1	736.4	224.5	168.3	152.6	141.3	132.0	126.4	122.3	119.5	119.1
27.5°	1186.1	731.5	199.5	156.6	140.9	130.0	121.2	114.7	111.0	109.0	109.0
30°	1235.4	730.3	190.1	145.3	130.4	119.5	110.6	104.6	101.8	101.0	100.6
32.5°	1294.8	733.6	194.2	141.3	120.7	109.8	101.4	96.9	94.1	94.1	94.1
35°	1358.1	732.8	200.3	144.9	114.3	100.1	93.7	90.8	88.0	88.0	88.0
37.5°	1437.7	734.0	205.1	151.0	111.8	92.0	88.5	84.8	83.1	83.1	83.1
40°	1556.4	774.0	202.6	156.2	111.0	86.4	79.1	77.9	76.7	76.7	76.7
42.5°	1701.7	860.8	205.9	156.6	110.6	82.4	72.7	75.1	72.3	71.9	71.4
45°	1860.8	955.6	226.5	148.2	110.2	80.4	69.4	72.3	67.9	67.9	67.9
47.5°	2018.6	1049.7	247.5	136.0	109.0	79.9	66.6	65.0	63.8	64.2	64.2
50°	2236.2	1126.4	255.5	119.5	106.2	79.1	61.4	61.8	61.0	61.8	61.8
52.5°	2473.2	1142.6	245.9	101.0	98.1	76.7	57.7	59.3	58.9	59.8	59.8
55°	2621.0	1125.2	203.1	83.9	85.6	67.0	54.1	57.3	57.3	57.3	57.3
57.5°	2773.6	1051.3	144.1	68.3	71.0	54.9	50.8	55.4	54.9	54.5	54.5
60°	2883.4	931.8	94.9	56.1	56.5	45.2	47.3	52.1	51.7	49.6	49.6
62.5°	2965.4	799.8	61.0	47.7	43.2	40.8	43.2	47.3	45.6	41.2	40.4
65°	2956.1	616.9	46.8	40.8	35.6	35.6	37.5	41.2	36.3	29.1	28.3
67.5°	2783.7	417.5	38.7	34.3	29.8	29.5	31.1	34.3	31.1	24.6	23.8
70°	2475.7	273.0	31.1	26.6	23.8	21.8	25.0	29.5	26.2	19.8	19.0
72.5°	2009.4	166.4	23.4	19.4	17.3	14.1	19.8	24.2	21.0	14.6	13.7
75°	1300.0	84.8	16.2	12.5	9.3	8.5	14.6	18.1	14.6	8.9	7.7
77.5°	497.4	35.6	8.9	5.6	4.8	4.0	8.1	10.9	6.0	2.0	1.6
80°	95.7	15.0	4.4	2.9	2.5	1.6	1.2	0.8	0.0	0.0	0.0
82.5°	16.5	4.8	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	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)