

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: P960323

Luminaire Tested: **NAV-SB1C-730-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960323
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-730-U-T2U-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5868.1 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

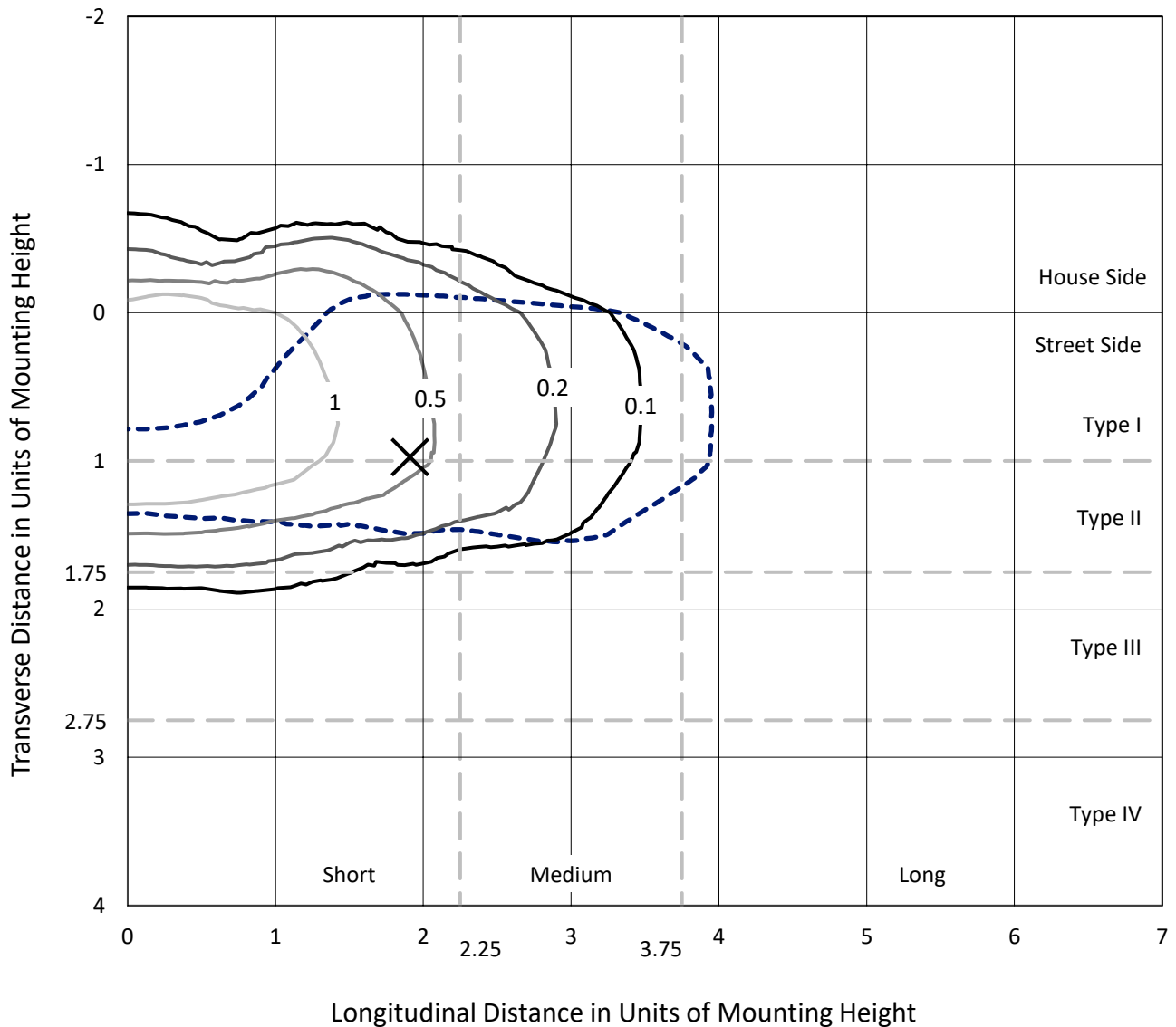
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

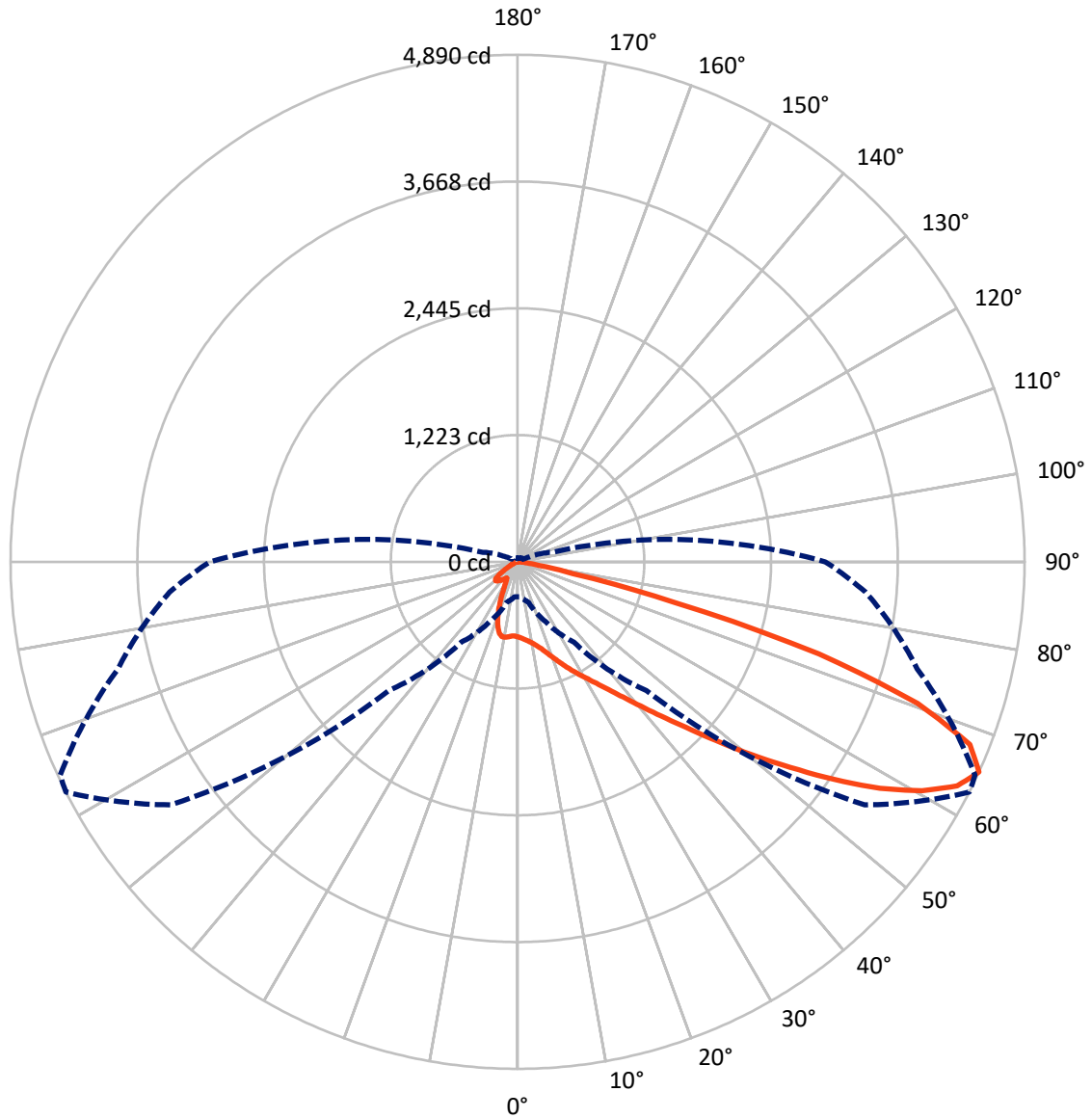
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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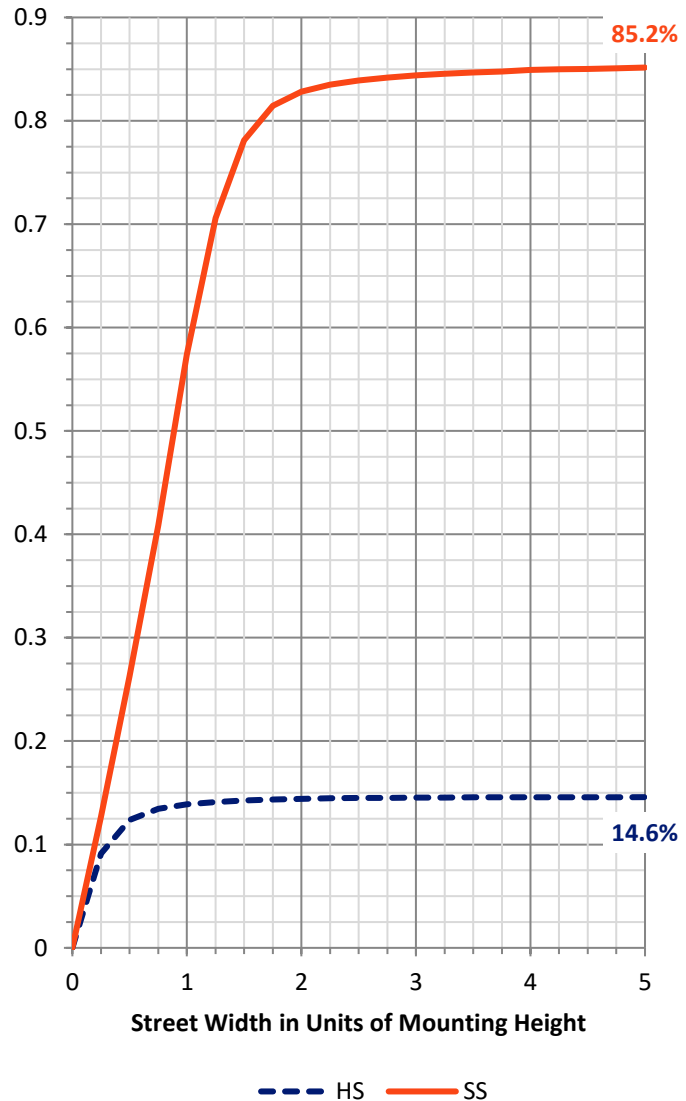
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	862.6	0.0	862.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	5005.6	0.0	5005.6
	% Fixture	85.3	0.0	85.3
Total	Lumens	5868.1	0.0	5868.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.2	1.2
10°-20°	189.3	3.2
20°-30°	329.7	5.6
30°-40°	594.2	10.1
40°-50°	1178.5	20.1
50°-60°	1605.3	27.4
60°-70°	1281.4	21.8
70°-80°	579.8	9.9
80°-90°	41.7	0.7
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°	5868.1	100.0
0°-180°	5868.1	100.0

Coefficient of Utilization

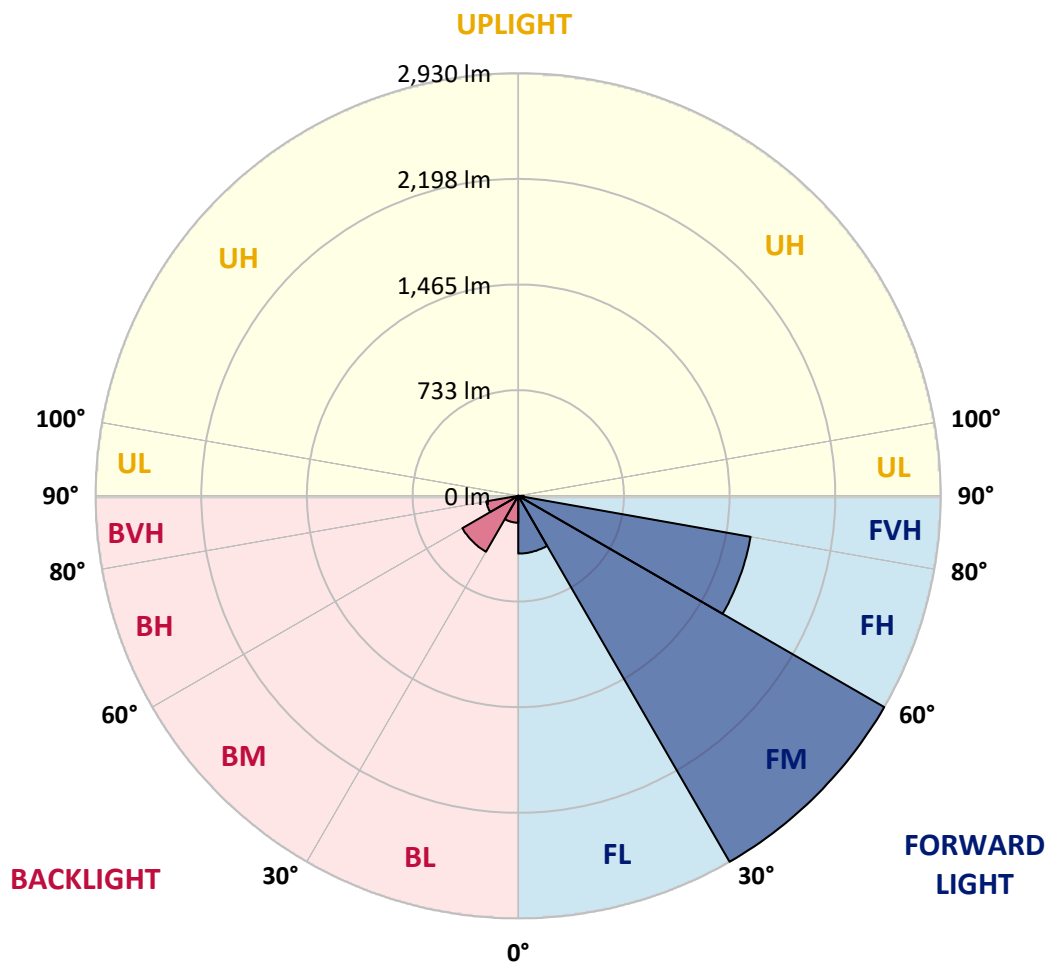


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	400.6	6.8			
FM (30°-60°)	2930.4	49.9			
FH (60°-80°)	1636.0	27.9			G1/1800
FVH (80°-90°)	38.6	0.7			G1/100
BL (0°-30°)	186.7	3.2	B1/500		
BM (30°-60°)	447.6	7.6	B1/1000		
BH (60°-80°)	225.2	3.8	B1/500		G1/500
BVH (80°-90°)	3.1	0.1			G0/10
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	724.3	724.3	724.3	724.3	724.3	724.3	724.3	724.3	724.3	724.3	724.3
2.5°	741.2	739.1	742.0	740.8	739.9	738.4	737.6	736.8	735.1	733.9	729.1
5°	743.2	742.0	744.9	747.2	749.7	752.0	753.3	754.9	753.3	750.1	745.3
7.5°	726.2	725.5	731.5	738.8	749.7	758.9	769.1	774.7	775.1	773.9	768.6
10°	725.1	723.0	729.1	738.0	752.0	768.6	786.4	798.5	800.1	805.3	799.7
12.5°	744.0	742.0	750.5	760.1	774.7	792.0	813.8	830.9	833.2	840.5	836.5
15°	775.9	773.1	782.8	795.3	813.8	833.6	856.7	872.0	874.0	882.9	875.7
17.5°	813.0	810.3	821.5	834.9	855.1	882.1	908.8	925.7	928.1	933.8	920.4
20°	860.7	857.1	865.9	878.0	899.4	931.7	963.6	987.9	987.5	987.5	965.7
22.5°	916.0	910.3	918.0	927.7	947.9	987.1	1029.4	1058.1	1058.1	1046.8	1010.9
25°	975.4	969.6	978.2	987.1	1004.8	1049.2	1098.9	1134.4	1136.0	1116.6	1059.3
27.5°	1049.6	1042.3	1048.8	1059.3	1069.8	1115.0	1173.9	1215.1	1216.0	1186.0	1105.4
30°	1192.5	1172.0	1151.8	1140.4	1145.3	1190.1	1253.1	1298.7	1302.8	1261.6	1155.4
32.5°	1454.2	1450.1	1379.0	1286.2	1237.8	1270.9	1341.5	1396.4	1398.8	1345.9	1220.4
35°	1860.7	1855.8	1741.6	1564.8	1406.9	1379.0	1448.8	1513.9	1512.3	1452.5	1304.7
37.5°	2345.9	2341.5	2190.8	1954.3	1698.7	1542.5	1587.3	1655.6	1665.6	1587.3	1413.8
40°	2760.5	2743.9	2648.7	2420.5	2086.3	1813.8	1784.3	1829.5	1840.1	1747.2	1552.3
42.5°	3074.6	3060.4	3012.0	2869.5	2555.4	2215.1	2016.5	2033.8	2045.6	1934.2	1711.2
45°	3237.3	3234.1	3253.5	3240.1	3033.4	2707.6	2348.3	2276.0	2280.5	2141.2	1891.7
47.5°	3260.3	3258.7	3347.0	3472.2	3444.4	3263.1	2774.3	2578.0	2562.3	2374.9	2087.9
50°	3124.6	3121.4	3291.0	3525.5	3718.9	3729.8	3257.9	2918.4	2883.6	2616.8	2292.6
52.5°	2691.4	2690.6	2969.2	3359.5	3815.4	4138.3	3735.8	3292.2	3234.1	2872.8	2509.0
55°	2071.0	2085.9	2405.3	2866.7	3639.4	4334.9	4165.0	3707.2	3617.9	3130.2	2708.5
57.5°	1467.1	1488.8	1804.5	2215.5	3093.6	4218.7	4455.3	4123.0	4026.9	3387.0	2910.7
60°	788.0	807.4	1123.5	1614.0	2301.5	3785.1	4608.2	4483.9	4393.0	3630.9	3093.1
62.5°	469.6	476.0	606.8	1041.9	1556.7	2891.7	4543.2	4758.8	4684.1	3835.6	3251.8
65°	337.1	338.2	404.1	636.2	945.0	1757.0	4087.5	4890.4	4867.4	3989.8	3369.3
67.5°	283.8	283.0	310.5	422.7	643.9	880.1	3132.7	4704.3	4802.0	4087.5	3435.9
70°	243.4	244.7	277.0	309.7	484.0	498.2	1557.5	4095.9	4304.3	4113.3	3431.8
72.5°	181.2	185.3	215.1	282.2	365.3	342.8	537.7	3037.1	3413.7	3875.5	3253.9
75°	128.0	130.0	151.4	237.4	272.5	249.5	274.5	1570.0	2052.8	2971.3	2663.3
77.5°	98.5	102.1	114.7	165.9	268.4	175.2	167.9	543.4	834.9	1794.9	1825.9
80°	53.3	59.8	82.7	119.9	188.5	123.9	83.1	216.4	283.0	839.3	704.1
82.5°	27.5	30.6	57.7	86.4	107.4	108.2	41.2	90.0	116.6	259.2	96.5
85°	10.9	13.3	38.7	47.7	55.4	53.3	18.6	36.3	42.0	71.9	29.5
87.5°	2.5	4.0	14.1	10.9	10.5	11.3	4.4	8.5	8.1	8.5	5.2
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°	724.3	724.3	724.3	724.3	724.3	724.3	724.3	724.3	724.3	724.3	724.3
2.5°	728.7	727.0	722.6	717.8	712.2	708.9	706.8	706.4	703.7	701.6	703.7
5°	740.8	739.1	730.7	720.6	709.7	701.2	693.1	685.9	675.4	673.3	672.6
7.5°	765.1	760.6	746.8	733.1	712.6	687.9	658.0	623.7	593.1	583.7	579.3
10°	794.9	788.8	771.5	747.2	701.6	634.6	562.3	495.4	442.1	427.1	421.5
12.5°	828.8	823.6	800.5	755.7	656.0	534.5	423.8	340.7	289.0	276.1	272.5
15°	869.2	861.5	829.6	742.8	574.5	406.1	291.1	241.8	223.2	220.8	218.4
17.5°	911.9	899.4	855.5	696.4	464.6	288.6	224.9	210.7	202.6	200.3	199.1
20°	951.1	935.0	870.7	626.2	347.2	224.9	201.4	192.2	184.9	182.0	180.5
22.5°	990.3	967.3	870.7	530.4	260.3	199.5	184.9	176.4	167.9	164.3	162.3
25°	1031.0	1000.4	855.5	423.8	209.5	182.9	169.1	159.9	152.6	148.1	146.6
27.5°	1070.6	1028.2	820.3	323.0	186.5	168.3	154.6	145.8	138.9	135.6	135.6
30°	1108.1	1055.6	771.1	245.1	171.6	154.3	141.2	133.7	126.8	123.5	123.9
32.5°	1159.1	1090.4	718.6	201.0	158.7	140.9	129.1	121.9	115.8	113.5	113.5
35°	1229.7	1141.6	673.3	197.4	147.8	130.0	118.3	111.4	105.4	103.3	103.3
37.5°	1329.8	1224.5	649.5	221.6	138.9	120.3	109.4	102.1	96.5	94.9	94.5
40°	1453.3	1336.6	662.5	245.9	132.8	111.8	101.4	94.1	89.2	87.2	86.8
42.5°	1599.8	1475.1	733.9	264.4	128.7	104.6	93.7	85.6	82.3	81.6	81.6
45°	1768.2	1627.3	843.4	284.2	122.3	97.7	86.0	79.9	77.5	77.1	76.7
47.5°	1959.6	1794.5	970.1	308.8	115.8	91.2	79.9	75.8	73.9	73.1	73.1
50°	2149.3	1962.8	1100.4	322.6	110.6	85.2	75.1	71.9	70.2	69.8	69.8
52.5°	2348.0	2136.0	1205.8	309.7	106.2	80.4	71.0	68.7	67.0	66.6	66.6
55°	2537.3	2276.0	1224.1	262.8	97.3	75.5	66.6	65.4	63.3	63.3	62.9
57.5°	2700.4	2346.3	1095.6	193.0	88.5	68.3	62.2	61.0	59.3	58.9	58.5
60°	2850.1	2326.1	845.7	130.0	78.7	61.0	56.5	55.8	54.1	52.1	51.7
62.5°	2934.5	2237.3	578.5	84.8	69.0	53.3	50.0	49.6	46.0	42.0	41.2
65°	2966.4	2054.8	360.9	61.8	57.7	45.6	43.2	42.4	37.1	32.7	32.3
67.5°	2938.6	1754.5	182.0	48.9	45.6	37.9	35.6	35.6	31.9	27.9	27.5
70°	2827.2	1315.3	76.7	39.2	35.2	29.1	29.1	30.6	27.1	22.7	22.2
72.5°	2585.3	884.9	40.8	29.8	26.2	20.6	23.8	25.0	21.4	16.9	16.9
75°	2055.2	539.8	28.3	22.2	16.5	14.6	18.1	19.0	14.6	11.3	10.9
77.5°	1405.7	310.1	19.0	14.1	10.5	8.5	12.5	11.7	7.7	5.2	5.6
80°	617.3	129.1	10.9	6.5	4.0	3.3	4.4	3.3	2.5	1.6	1.6
82.5°	72.3	30.2	4.0	2.5	1.6	0.8	0.4	0.0	0.0	0.0	0.0
85°	15.0	3.6	2.0	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.9	0.8	0.4	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)