

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: P960289

Luminaire Tested: **NAV-SB1C-727-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960289
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-727-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH
HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5200.8 lumens
Efficiency: N/A
Efficacy: 95.6 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

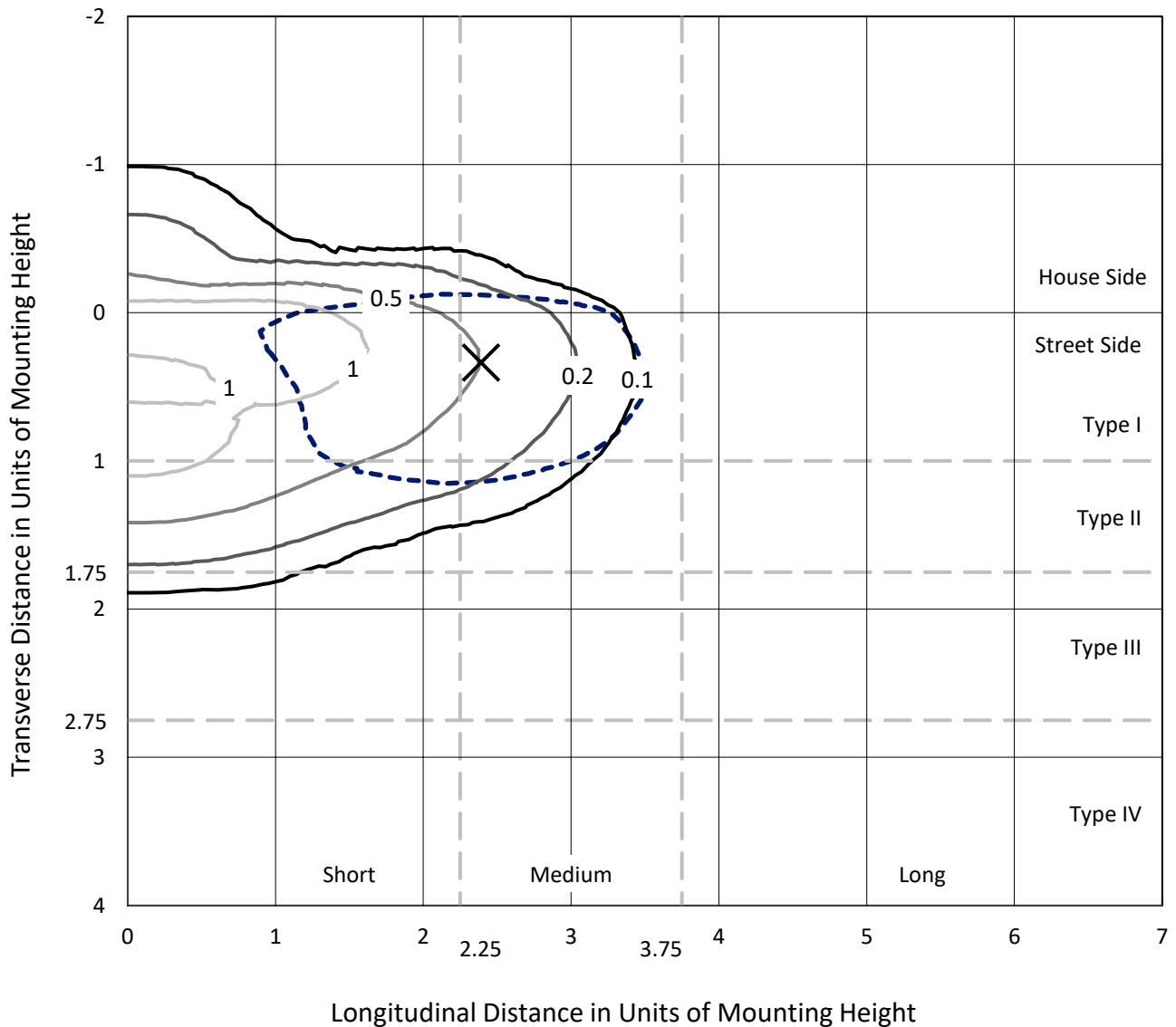
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

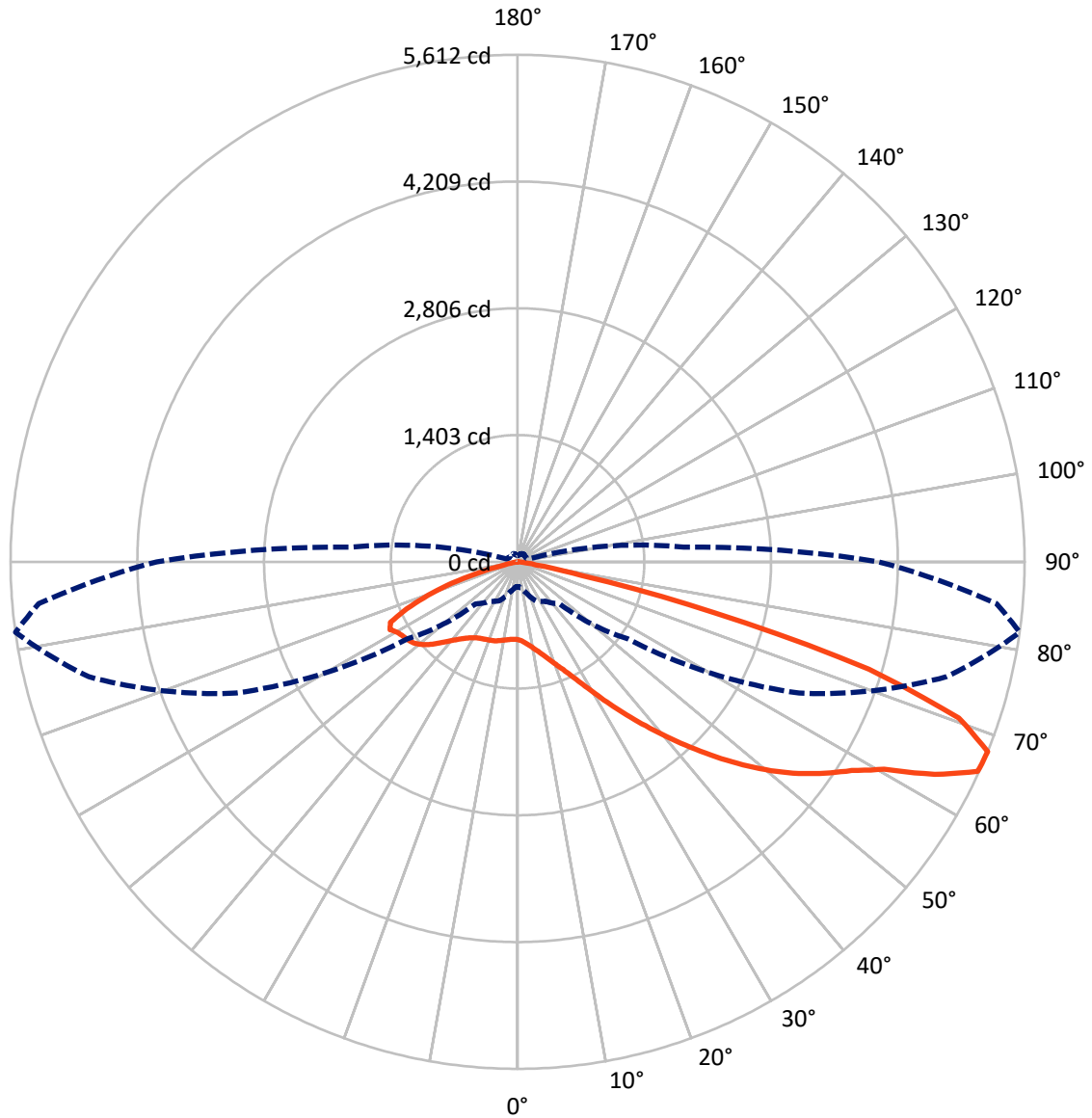
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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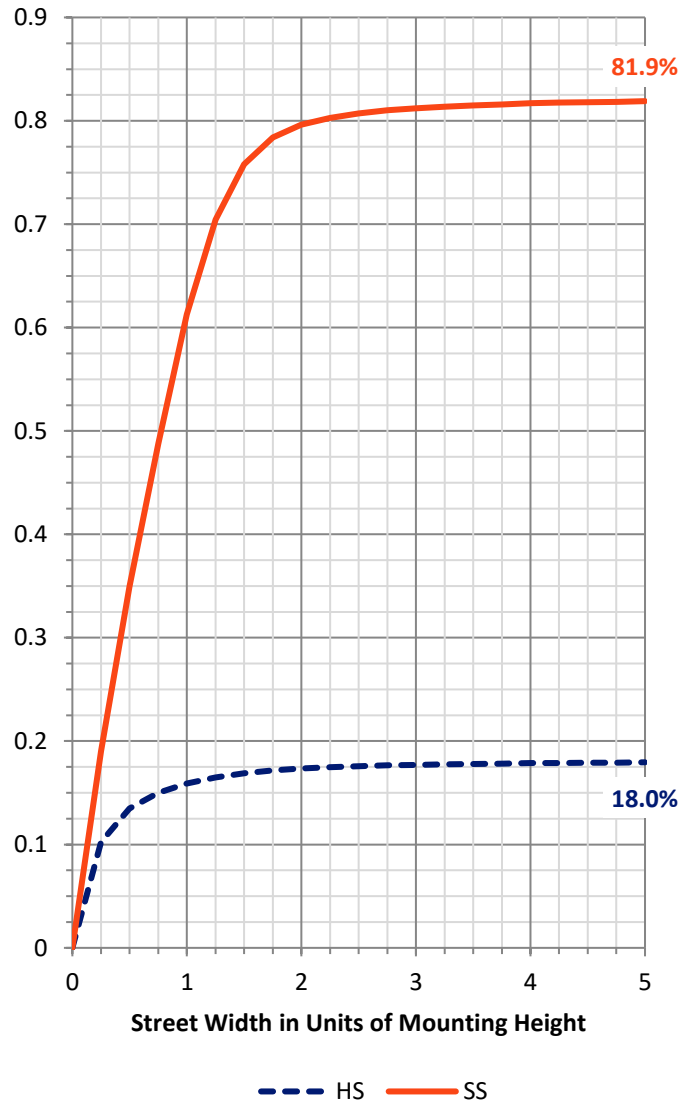
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	942.1	0.0	942.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	4258.8	0.0	4258.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	5200.8	0.0	5200.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.8	1.5
10°-20°	199.5	3.8
20°-30°	319.5	6.1
30°-40°	565.0	10.9
40°-50°	989.9	19.0
50°-60°	1320.2	25.4
60°-70°	1229.1	23.6
70°-80°	471.7	9.1
80°-90°	29.3	0.6
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°	5200.8	100.0
0°-180°	5200.8	100.0

Coefficient of Utilization



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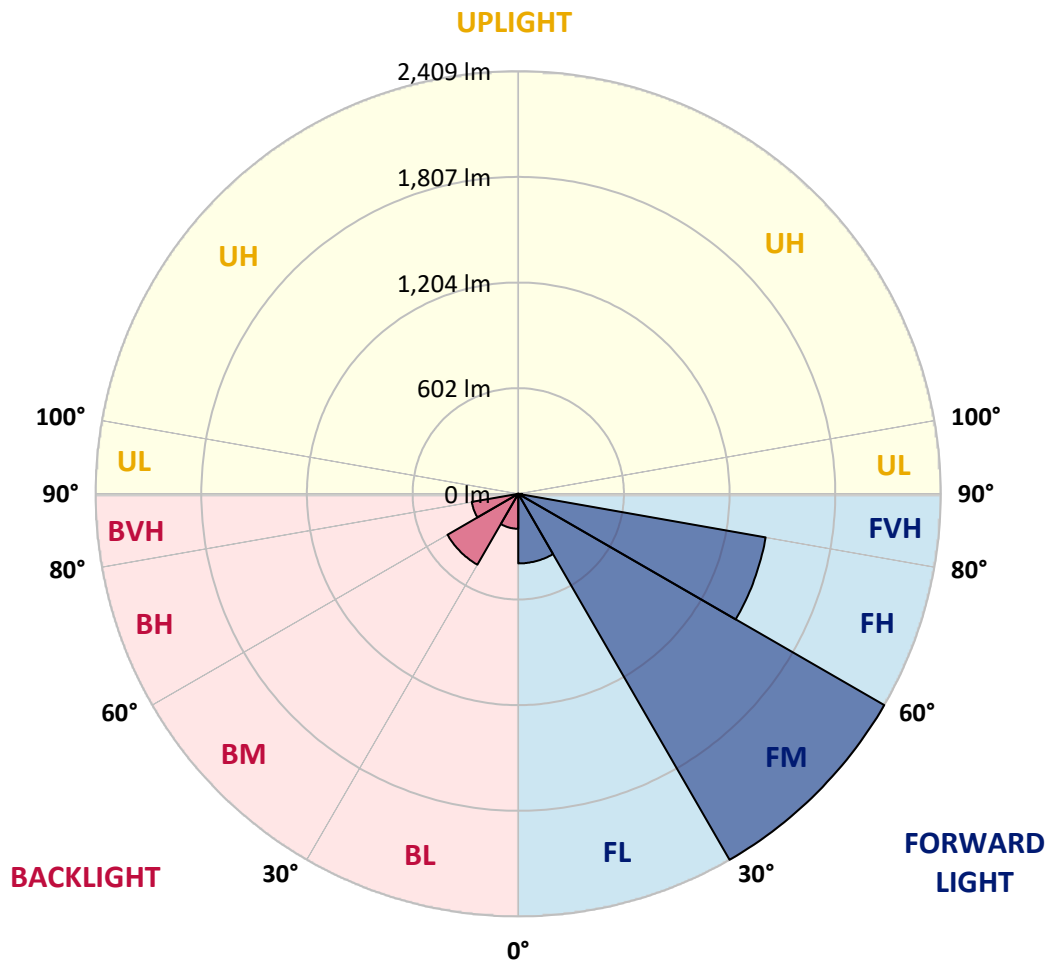
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	396.8	7.6			
FM (30°-60°)	2408.8	46.3			
FH (60°-80°)	1431.9	27.5			G1/1800
FVH (80°-90°)	21.3	0.4			G1/100
BL (0°-30°)	199.0	3.8	B1/500		
BM (30°-60°)	466.2	9.0	B1/1000		
BH (60°-80°)	268.9	5.2	B1/500		G1/500
BVH (80°-90°)	8.0	0.2			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	861.6	861.6	861.6	861.6	861.6	861.6	861.6	861.6	861.6	861.6	861.6
2.5°	910.6	915.9	912.9	911.4	908.8	905.1	902.0	892.7	882.9	876.6	874.3
5°	929.0	934.3	933.9	935.4	937.3	938.4	937.6	927.1	913.3	902.4	896.1
7.5°	913.3	919.2	924.1	931.6	944.7	958.6	965.3	963.1	948.8	933.9	926.0
10°	868.7	875.0	886.7	904.3	932.0	962.0	987.1	998.7	989.6	973.2	962.4
12.5°	787.1	793.5	816.3	854.4	900.9	952.9	1000.9	1032.0	1034.2	1017.7	1005.0
15°	695.4	701.7	726.0	774.0	844.8	928.2	1008.4	1067.1	1087.0	1072.8	1057.4
17.5°	638.5	644.0	662.4	701.0	774.7	878.8	1005.7	1104.6	1149.9	1138.7	1120.3
20°	621.3	626.1	634.7	661.6	723.0	827.5	988.5	1139.8	1217.7	1211.3	1190.7
22.5°	639.6	644.0	646.7	658.7	697.2	793.9	966.8	1175.8	1296.3	1297.1	1272.0
25°	681.8	686.3	683.4	690.8	707.7	783.3	958.6	1218.1	1395.2	1403.4	1374.9
27.5°	751.5	751.9	744.8	744.4	747.0	799.1	967.2	1263.4	1519.9	1535.2	1500.1
30°	891.1	885.6	858.2	828.6	815.2	846.2	991.2	1316.9	1667.1	1694.4	1650.1
32.5°	1106.5	1098.3	1048.1	977.3	906.2	922.3	1034.2	1378.0	1827.3	1876.8	1822.9
35°	1340.2	1337.9	1285.5	1180.3	1056.0	1030.4	1104.2	1458.1	2002.1	2080.9	2016.8
37.5°	1557.3	1556.2	1526.2	1402.3	1251.0	1181.4	1216.6	1562.9	2189.4	2303.3	2227.6
40°	1755.8	1759.2	1729.2	1618.4	1466.0	1374.9	1369.4	1692.5	2397.6	2545.5	2455.6
42.5°	1927.3	1931.0	1900.7	1818.7	1678.2	1589.2	1557.0	1851.3	2600.9	2805.7	2699.4
45°	2043.7	2066.9	2062.5	1996.9	1896.2	1803.7	1782.4	2050.5	2832.7	3081.7	2957.0
47.5°	2076.6	2098.1	2131.7	2140.7	2079.3	1988.3	2013.8	2290.5	3067.1	3358.0	3216.1
50°	1995.5	2015.3	2085.3	2178.5	2221.2	2193.2	2238.8	2547.7	3307.2	3633.6	3470.3
52.5°	1835.2	1855.4	1943.8	2091.3	2265.5	2353.8	2464.6	2801.2	3539.6	3894.6	3711.1
55°	1603.4	1624.7	1738.2	1905.2	2181.2	2420.0	2653.0	3054.4	3752.7	4129.4	3928.3
57.5°	1288.1	1303.8	1421.8	1655.5	1969.2	2354.1	2791.9	3330.7	3953.4	4360.0	4143.7
60°	839.5	853.4	990.5	1251.0	1618.0	2133.9	2819.6	3638.9	4220.0	4660.0	4433.8
62.5°	558.3	567.6	648.9	840.3	1139.5	1711.2	2657.4	3884.9	4611.0	5182.0	4931.5
65°	383.0	392.5	473.7	607.0	736.2	1131.9	2191.2	3852.4	4965.2	5596.5	5300.3
67.5°	273.4	281.3	350.1	475.9	532.8	657.5	1485.4	3435.9	4914.3	5612.2	5320.2
70°	195.9	200.3	257.3	370.7	423.5	395.0	826.0	2627.9	4302.7	5182.4	4915.0
72.5°	137.0	138.6	178.7	282.3	341.1	288.3	393.2	1752.0	3254.4	4067.6	3810.3
75°	92.9	94.7	120.2	207.0	273.7	220.2	208.2	939.5	1910.4	2251.5	2018.2
77.5°	56.9	57.7	77.5	141.6	204.8	167.8	134.1	398.0	739.1	725.7	618.6
80°	32.2	32.2	49.4	87.9	139.7	108.2	94.0	169.2	234.0	205.6	181.2
82.5°	17.9	18.3	36.0	54.6	92.5	64.1	51.7	78.3	101.1	89.5	77.9
85°	7.5	8.2	22.1	25.8	44.2	31.9	21.0	32.9	37.4	33.3	24.3
87.5°	0.7	1.1	6.8	4.8	5.2	6.4	3.0	6.4	5.2	5.2	3.8
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°	861.6	861.6	861.6	861.6	861.6	861.6	861.6	861.6	861.6	861.6	861.6
2.5°	867.3	861.6	847.4	830.9	809.1	798.7	784.4	774.7	766.5	767.2	759.7
5°	884.1	869.8	838.0	798.4	748.9	713.7	676.3	650.5	629.5	624.9	614.8
7.5°	907.3	884.8	829.0	757.5	674.0	610.7	554.2	517.8	492.0	483.8	475.6
10°	937.3	904.7	817.4	706.2	586.0	505.5	444.8	416.4	398.8	392.8	388.3
12.5°	972.1	927.5	802.1	643.7	495.4	417.9	379.4	365.1	359.5	357.6	356.5
15°	1015.9	955.9	778.9	569.5	418.6	364.4	347.9	346.0	346.8	346.0	345.6
17.5°	1067.9	987.1	741.1	493.1	367.0	337.0	331.0	332.5	334.4	334.0	333.2
20°	1124.8	1017.7	692.7	425.4	331.8	317.5	314.2	315.7	317.1	316.4	316.0
22.5°	1189.6	1050.7	639.2	372.6	308.2	299.6	295.8	296.2	296.2	294.7	294.0
25°	1267.1	1087.0	583.0	335.2	290.2	283.4	279.0	277.5	275.2	270.7	270.0
27.5°	1359.7	1125.6	529.1	308.9	275.9	269.6	264.3	260.7	255.0	247.5	246.7
30°	1463.7	1172.4	483.4	292.4	264.8	258.4	252.4	246.7	238.5	229.2	228.4
32.5°	1586.2	1222.6	450.1	281.6	254.6	247.8	240.8	234.0	225.1	215.7	216.1
35°	1732.1	1283.2	430.6	274.1	246.7	237.8	229.9	222.4	215.7	207.5	206.7
37.5°	1890.6	1347.7	424.7	270.4	241.5	227.7	218.6	213.4	212.7	207.8	207.5
40°	2063.9	1424.0	429.2	268.1	235.9	217.9	208.2	207.0	208.9	200.3	200.7
42.5°	2247.4	1514.6	436.6	265.5	228.1	208.2	198.8	198.8	197.3	185.3	185.3
45°	2445.9	1619.1	444.1	259.1	218.6	198.4	191.4	188.7	182.3	170.8	170.4
47.5°	2645.8	1725.5	449.7	247.5	207.5	190.2	183.9	177.8	168.5	158.1	157.6
50°	2835.7	1820.9	443.7	230.3	194.7	182.3	175.6	167.4	157.2	150.2	149.0
52.5°	3005.3	1903.7	418.3	210.0	181.2	174.1	168.1	159.5	151.3	143.8	143.1
55°	3152.9	1970.8	373.3	191.0	169.2	167.0	161.0	150.2	138.9	132.5	131.8
57.5°	3294.4	2021.6	317.1	175.3	158.4	159.2	150.2	140.4	130.0	123.2	122.5
60°	3482.7	2089.8	260.2	160.6	146.8	149.0	139.3	132.2	119.1	110.5	109.4
62.5°	3783.8	2195.8	206.7	142.7	133.4	134.1	130.0	121.4	105.6	95.5	94.7
65°	4022.7	2156.8	162.9	123.2	118.0	119.1	119.1	109.7	92.9	81.3	80.2
67.5°	3995.8	1846.7	130.0	104.1	103.3	104.1	106.7	98.8	82.4	73.0	71.5
70°	3680.8	1468.9	104.1	86.5	89.9	87.9	95.5	90.2	74.1	64.8	63.7
72.5°	3003.5	1058.2	79.3	71.5	68.9	71.9	86.1	81.3	61.8	51.2	50.2
75°	1755.0	564.7	59.1	56.6	49.8	60.0	76.4	69.3	47.2	37.8	36.7
77.5°	571.4	197.0	43.5	41.5	37.1	48.3	65.2	58.4	38.5	29.9	28.8
80°	153.1	59.6	29.6	27.4	24.0	36.0	51.7	46.4	27.7	19.5	19.1
82.5°	61.4	25.1	17.2	15.4	13.1	24.7	40.8	37.4	20.6	12.4	12.4
85°	19.9	8.2	6.4	4.8	5.9	15.4	24.3	25.4	14.6	6.4	4.8
87.5°	2.7	1.1	1.1	1.5	1.1	2.7	7.5	7.1	4.1	0.7	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)