

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: P960792

Luminaire Tested: **NAV-SB1D-722-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960792
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1D-722-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7176 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

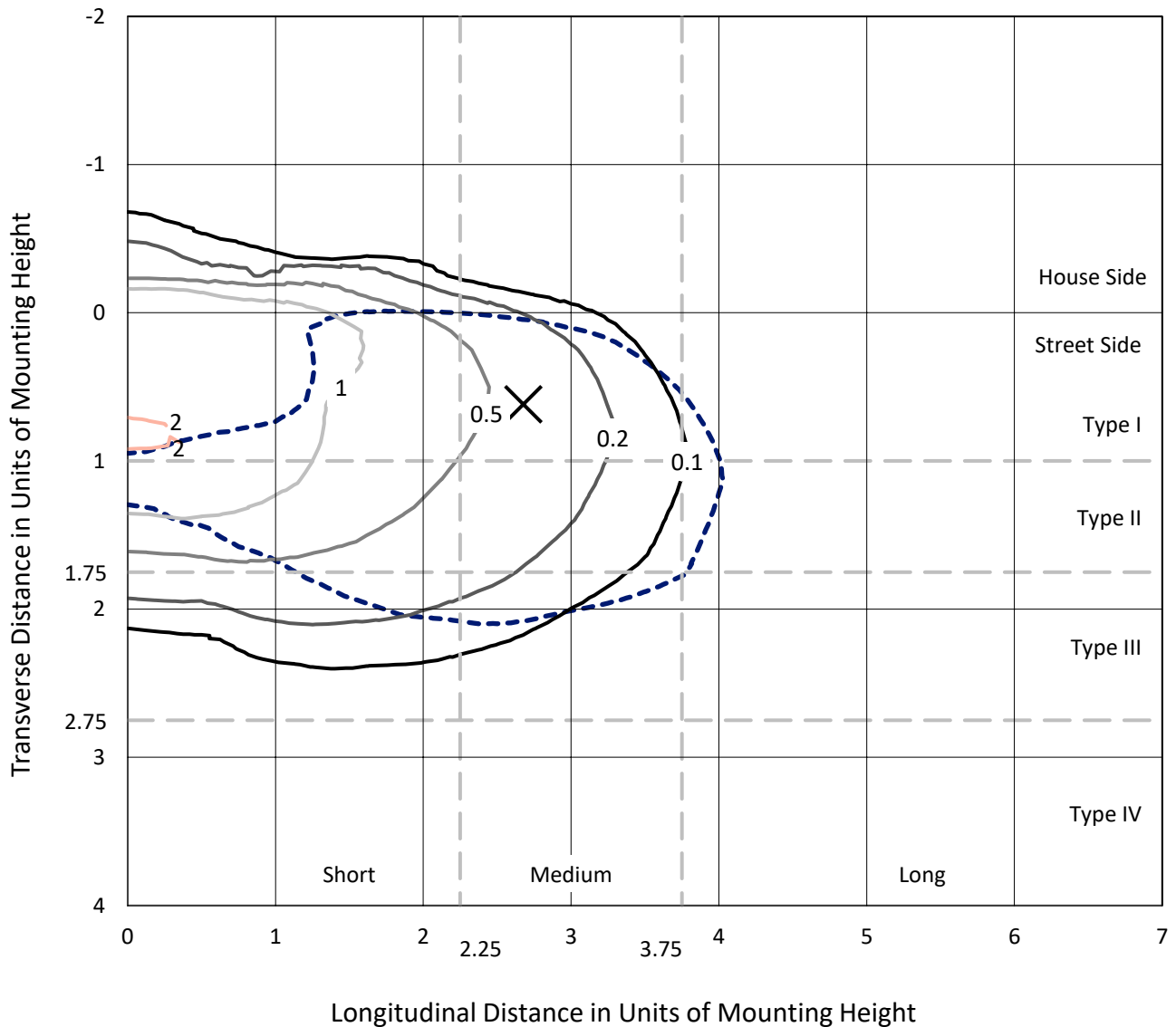
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

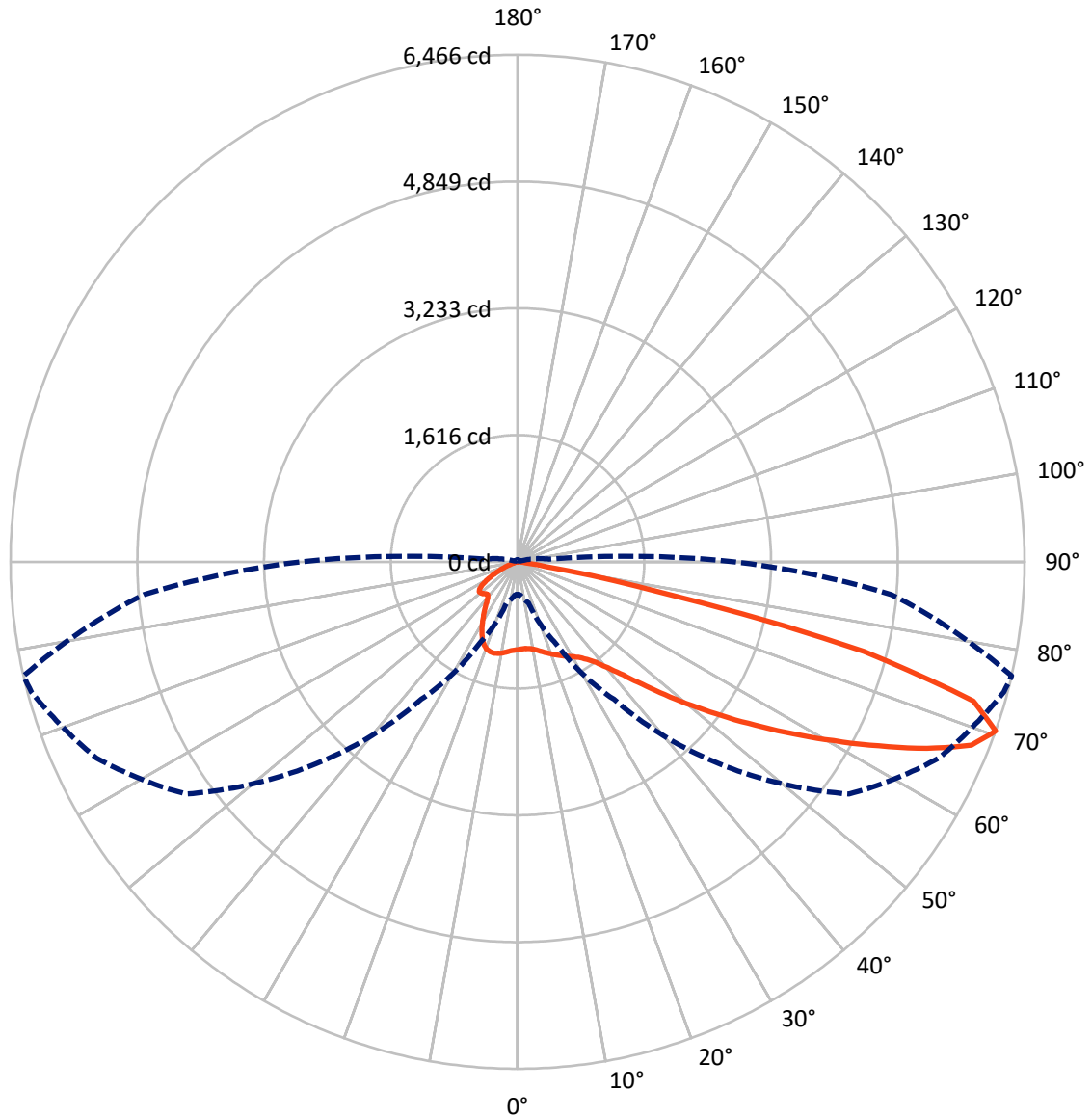
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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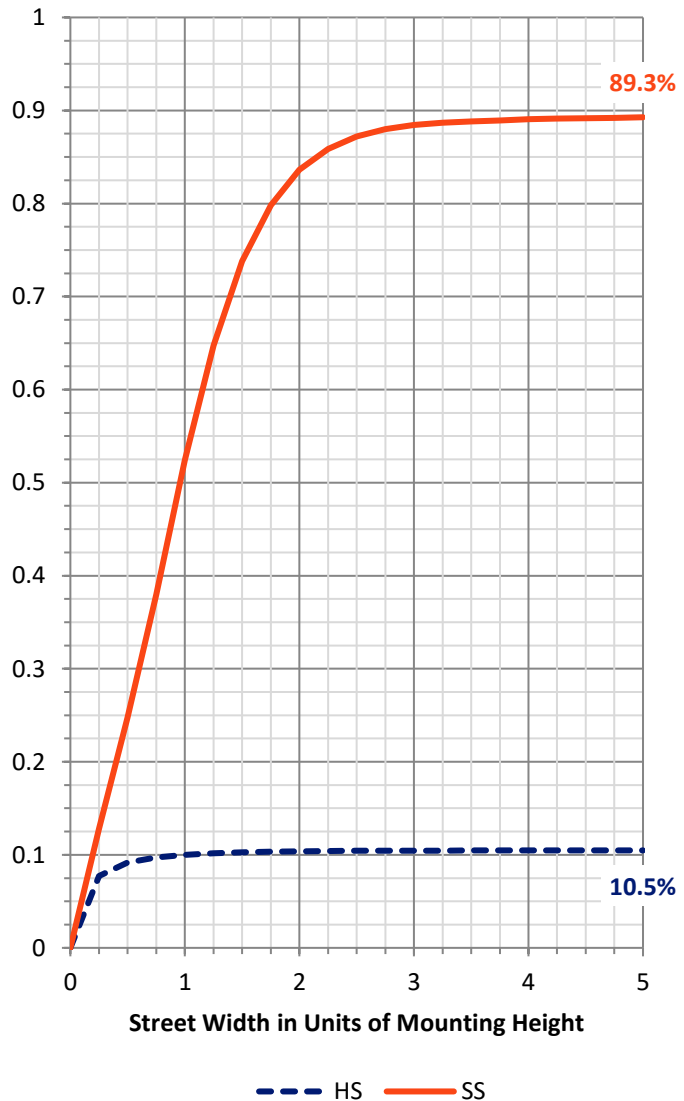
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	756.4	0.0	756.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	6419.6	0.0	6419.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	7176.0	0.0	7176.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.5	1.3
10°-20°	229.0	3.2
20°-30°	354.2	4.9
30°-40°	642.7	9.0
40°-50°	1213.2	16.9
50°-60°	1753.0	24.4
60°-70°	1866.0	26.0
70°-80°	988.9	13.8
80°-90°	32.5	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°	7176.0	100.0
0°-180°	7176.0	100.0

Coefficient of Utilization



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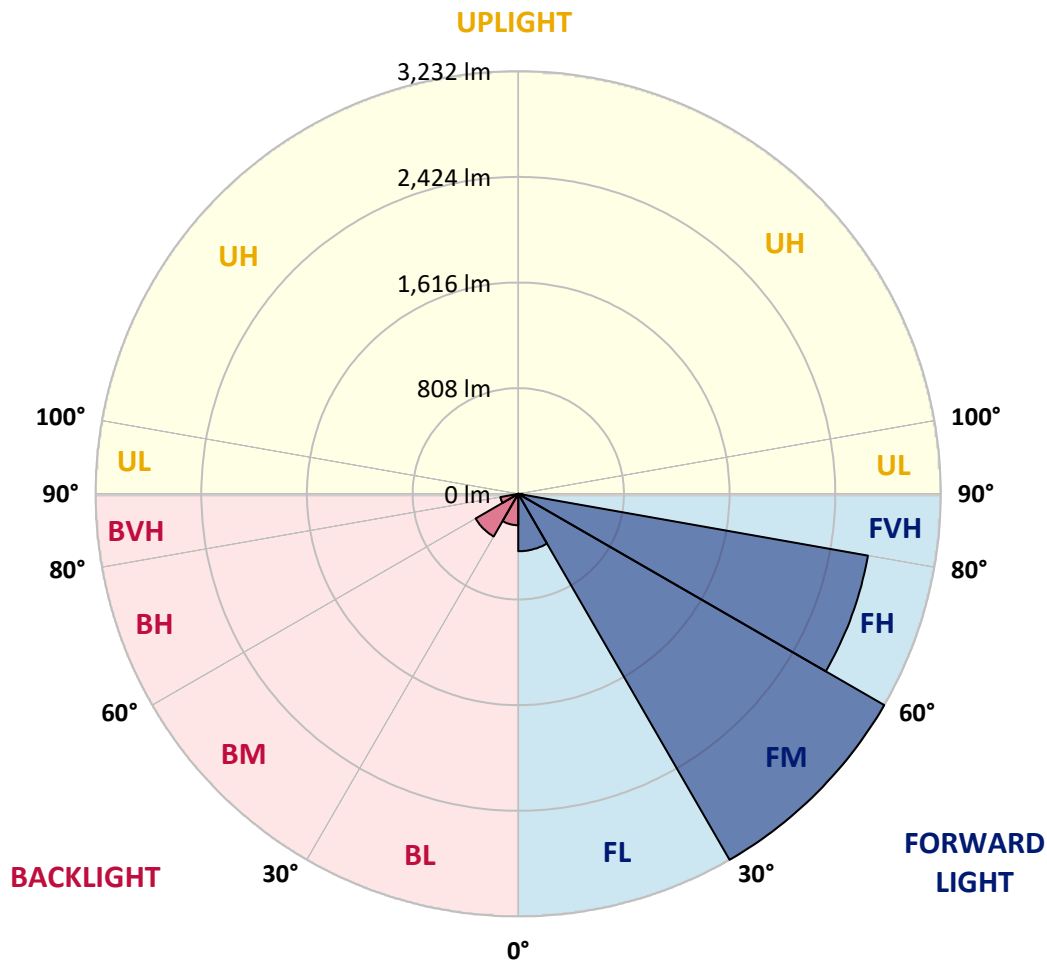
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	439.3	6.1			
FM (30°-60°)	3232.4	45.0			
FH (60°-80°)	2716.2	37.9			G2/5000
FVH (80°-90°)	31.6	0.4			G1/100
BL (0°-30°)	240.3	3.3	B1/500		
BM (30°-60°)	376.6	5.2	B1/1000		
BH (60°-80°)	138.7	1.9	B1/500		G1/500
BVH (80°-90°)	0.9	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1119.3	1119.3	1119.3	1119.3	1119.3	1119.3	1119.3	1119.3	1119.3	1119.3	1119.3
2.5°	1050.9	1060.5	1059.0	1065.4	1067.6	1076.8	1085.8	1098.1	1111.6	1111.2	1120.2
5°	991.6	1001.0	1003.3	1011.9	1022.8	1036.9	1055.4	1079.9	1105.3	1109.4	1127.5
7.5°	921.3	931.3	937.2	954.4	974.4	1003.3	1033.7	1069.5	1111.6	1117.6	1152.4
10°	851.1	860.1	867.9	892.3	924.0	967.1	1016.5	1068.2	1124.7	1133.3	1182.7
12.5°	807.6	816.2	824.8	846.0	885.5	938.1	1005.1	1074.5	1146.6	1158.8	1224.1
15°	792.1	799.8	806.7	825.6	862.3	922.2	1002.9	1087.6	1174.1	1190.4	1273.9
17.5°	794.4	798.5	803.0	817.5	853.3	914.9	1007.0	1110.3	1206.8	1221.3	1323.7
20°	807.6	809.9	810.3	820.2	852.0	914.1	1015.1	1132.0	1237.6	1257.1	1373.1
22.5°	824.3	825.2	824.3	831.1	860.6	920.9	1026.0	1158.4	1272.0	1290.2	1422.9
25°	902.7	885.5	863.8	850.6	875.0	934.0	1042.3	1193.6	1309.6	1327.4	1471.5
27.5°	1146.1	1096.6	1018.7	931.3	905.0	953.0	1065.0	1229.5	1347.8	1363.6	1523.6
30°	1541.2	1476.4	1344.1	1147.0	1001.0	992.9	1094.4	1265.3	1388.1	1405.3	1579.3
32.5°	1937.4	1921.5	1768.7	1495.9	1217.2	1081.7	1143.4	1313.7	1441.6	1455.1	1654.6
35°	2337.9	2305.7	2180.7	1911.0	1550.3	1262.5	1224.9	1377.2	1511.8	1527.1	1764.2
37.5°	2644.7	2625.2	2547.7	2325.6	1945.4	1541.7	1364.5	1475.5	1613.8	1631.0	1904.7
40°	2915.7	2906.6	2880.4	2734.0	2387.3	1906.9	1581.6	1627.8	1755.1	1775.5	2076.9
42.5°	3128.7	3150.0	3164.9	3124.2	2842.7	2323.9	1873.4	1841.7	1952.2	1973.1	2296.2
45°	3346.6	3353.9	3414.2	3473.1	3295.0	2759.8	2202.4	2092.3	2197.4	2223.2	2559.0
47.5°	3486.6	3515.6	3621.7	3725.5	3675.2	3192.2	2555.8	2388.2	2481.5	2530.0	2853.6
50°	3497.1	3551.9	3697.9	3878.7	3952.1	3603.6	2940.2	2725.4	2824.6	2878.1	3168.1
52.5°	3323.6	3408.7	3634.9	3899.5	4101.6	3952.1	3337.6	3062.5	3189.9	3259.6	3494.4
55°	2548.1	2659.7	3397.9	3786.2	4107.6	4216.3	3724.6	3413.8	3596.8	3675.6	3846.9
57.5°	2220.0	2276.3	2671.5	3589.6	3998.3	4322.8	4074.5	3748.2	4039.5	4137.4	4180.1
60°	1847.2	1921.0	2240.4	3267.8	3850.1	4333.2	4383.5	4179.5	4519.4	4629.6	4485.5
62.5°	1255.3	1335.5	1653.1	2714.9	3647.6	4328.3	4636.8	4623.7	5052.8	5171.1	4744.2
65°	777.7	827.9	1037.3	2216.9	3364.4	4333.7	4902.0	5162.9	5615.7	5735.8	4944.5
67.5°	614.5	637.7	746.8	1702.1	2876.3	4211.3	5166.6	5670.1	6145.5	6240.6	5005.7
70°	412.9	426.9	543.4	1141.1	2139.9	3646.6	5161.6	5924.7	6418.2	6465.8	4782.8
72.5°	217.5	228.4	317.6	528.4	1292.4	2592.1	4350.9	5620.2	6146.8	6075.2	4088.0
75°	108.8	126.9	213.9	268.2	552.0	1445.7	2701.8	4431.1	4838.0	4560.7	2623.0
77.5°	82.5	99.7	176.7	176.7	192.2	486.7	1144.2	2416.7	2229.2	1856.2	770.0
80°	52.6	68.0	154.6	133.7	80.3	123.7	298.2	677.0	473.6	360.3	140.0
82.5°	30.9	44.4	128.7	88.4	44.9	45.8	84.3	144.1	122.8	95.6	43.0
85°	12.2	29.0	88.4	34.8	17.6	11.4	25.4	30.9	25.4	19.1	10.9
87.5°	0.0	6.8	15.4	0.0	1.3	0.9	1.8	2.3	2.3	1.8	3.6
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°	1119.3	1119.3	1119.3	1119.3	1119.3	1119.3	1119.3	1119.3	1119.3	1119.3	1119.3
2.5°	1124.3	1125.2	1127.9	1128.4	1122.1	1113.9	1110.7	1109.4	1103.9	1103.5	1104.3
5°	1138.0	1142.0	1138.0	1126.2	1098.1	1058.6	1028.7	1004.2	982.1	975.2	971.2
7.5°	1165.1	1169.2	1156.9	1110.7	1040.1	961.7	890.9	841.1	796.2	779.4	772.6
10°	1204.1	1209.5	1171.0	1077.7	952.5	826.6	706.9	622.7	557.0	530.2	518.9
12.5°	1253.1	1255.3	1178.6	1027.4	838.9	658.9	489.4	399.2	340.8	319.1	312.2
15°	1307.0	1303.8	1179.6	958.9	683.9	465.9	319.5	262.4	238.8	231.5	231.5
17.5°	1363.6	1350.4	1161.4	860.1	513.9	318.6	237.0	223.4	219.4	217.5	217.1
20°	1419.3	1389.9	1128.4	730.9	368.9	237.9	215.2	211.2	208.9	208.0	207.0
22.5°	1470.1	1419.8	1071.7	581.0	267.8	210.2	203.5	199.9	195.8	193.9	193.5
25°	1519.5	1437.0	992.0	441.0	214.3	196.7	191.3	184.4	179.0	176.7	175.8
27.5°	1567.5	1447.9	892.3	326.3	191.3	184.0	174.0	164.5	160.4	159.5	158.6
30°	1618.7	1451.5	779.0	243.3	177.2	168.1	153.6	142.8	140.5	140.9	140.9
32.5°	1681.3	1456.9	664.8	199.4	165.4	149.1	131.9	120.5	118.7	120.5	120.1
35°	1756.0	1467.8	554.7	183.6	155.0	129.6	111.0	101.5	99.7	101.1	100.7
37.5°	1857.5	1485.5	451.8	180.4	146.4	113.3	93.4	85.7	85.7	86.1	85.7
40°	1992.6	1532.6	359.8	178.1	141.9	101.1	78.8	75.6	77.1	77.9	77.9
42.5°	2157.1	1632.7	297.8	175.4	136.8	95.6	71.6	70.2	72.5	73.4	73.4
45°	2341.5	1759.6	275.9	170.9	132.3	99.2	68.5	66.6	69.3	69.8	70.2
47.5°	2532.4	1883.8	273.3	165.8	127.8	104.7	67.5	63.4	66.6	67.0	67.5
50°	2725.4	1964.9	275.9	158.2	120.5	104.7	68.0	60.3	63.0	64.4	64.8
52.5°	2919.8	2002.1	274.2	141.3	107.8	98.3	68.0	57.5	60.3	61.2	61.2
55°	3108.3	1994.9	246.5	116.4	91.5	87.0	66.1	55.2	57.1	57.5	57.5
57.5°	3257.3	1893.8	195.4	90.6	74.3	72.5	60.3	52.6	53.9	53.5	53.5
60°	3335.4	1671.8	139.6	69.8	58.4	57.1	53.0	48.9	49.8	47.6	47.2
62.5°	3336.3	1378.1	93.4	55.2	46.6	45.3	45.3	44.0	43.0	38.5	37.2
65°	3265.1	1052.3	62.1	44.0	37.6	35.4	38.0	37.6	34.4	28.1	27.2
67.5°	3103.8	689.7	47.2	34.4	29.0	27.7	30.3	31.7	29.4	23.6	23.1
70°	2772.0	401.5	38.9	26.8	21.7	20.4	24.5	27.2	24.5	19.1	18.1
72.5°	2302.6	216.6	31.7	20.0	15.0	13.6	19.5	22.2	19.5	14.0	13.6
75°	1494.1	116.0	24.5	13.1	7.7	8.6	14.5	16.3	13.6	9.0	8.2
77.5°	501.6	51.2	15.4	6.4	3.6	3.6	8.6	9.9	6.4	3.2	2.8
80°	111.9	21.3	6.4	2.8	1.3	1.3	1.8	1.8	0.9	0.0	0.0
82.5°	36.7	8.6	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.0	3.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.4	0.4	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)