

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: P961319

Luminaire Tested: **NAV-SB2A-722-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961319
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-SB2A-722-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6324.2 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

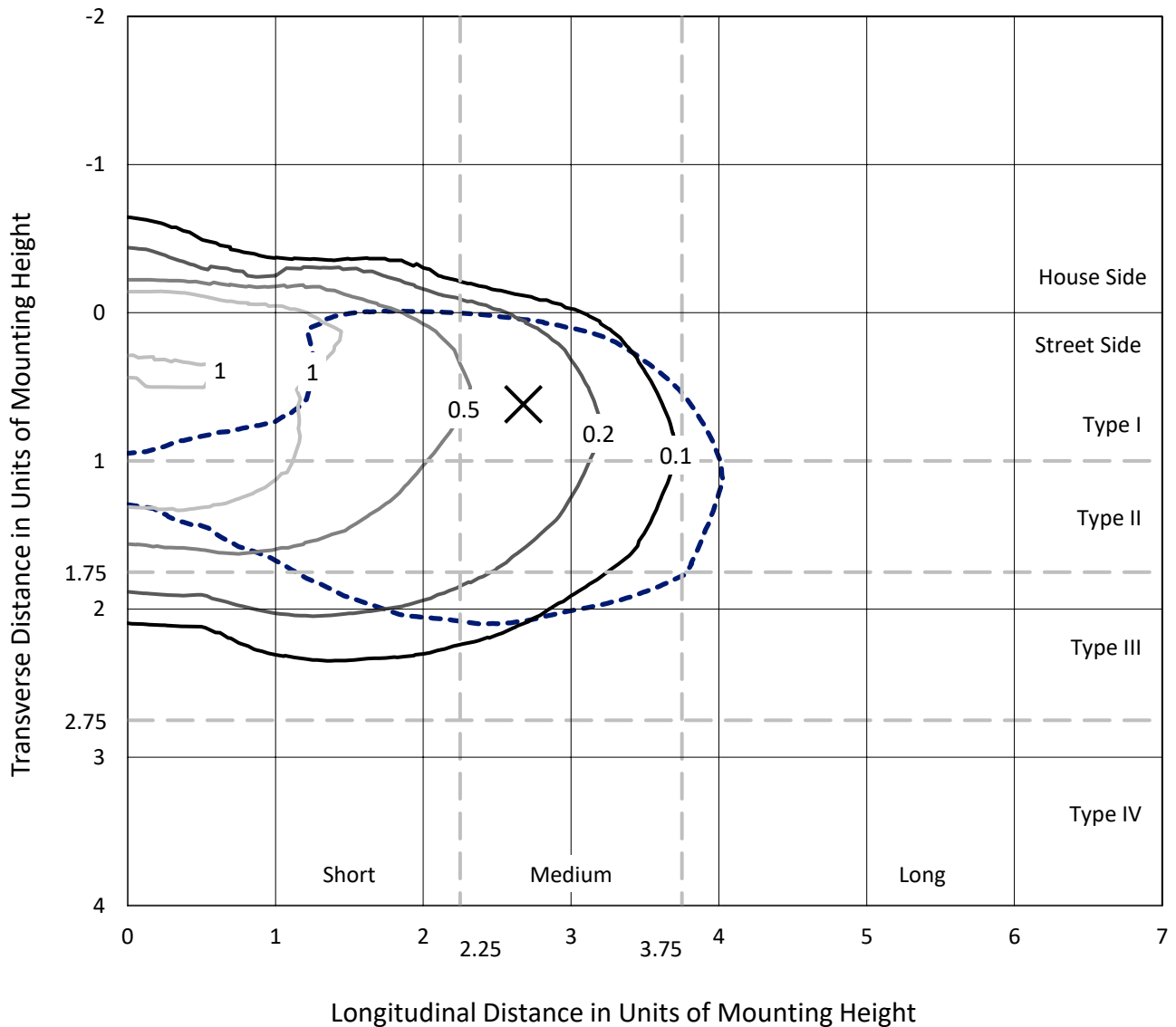
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

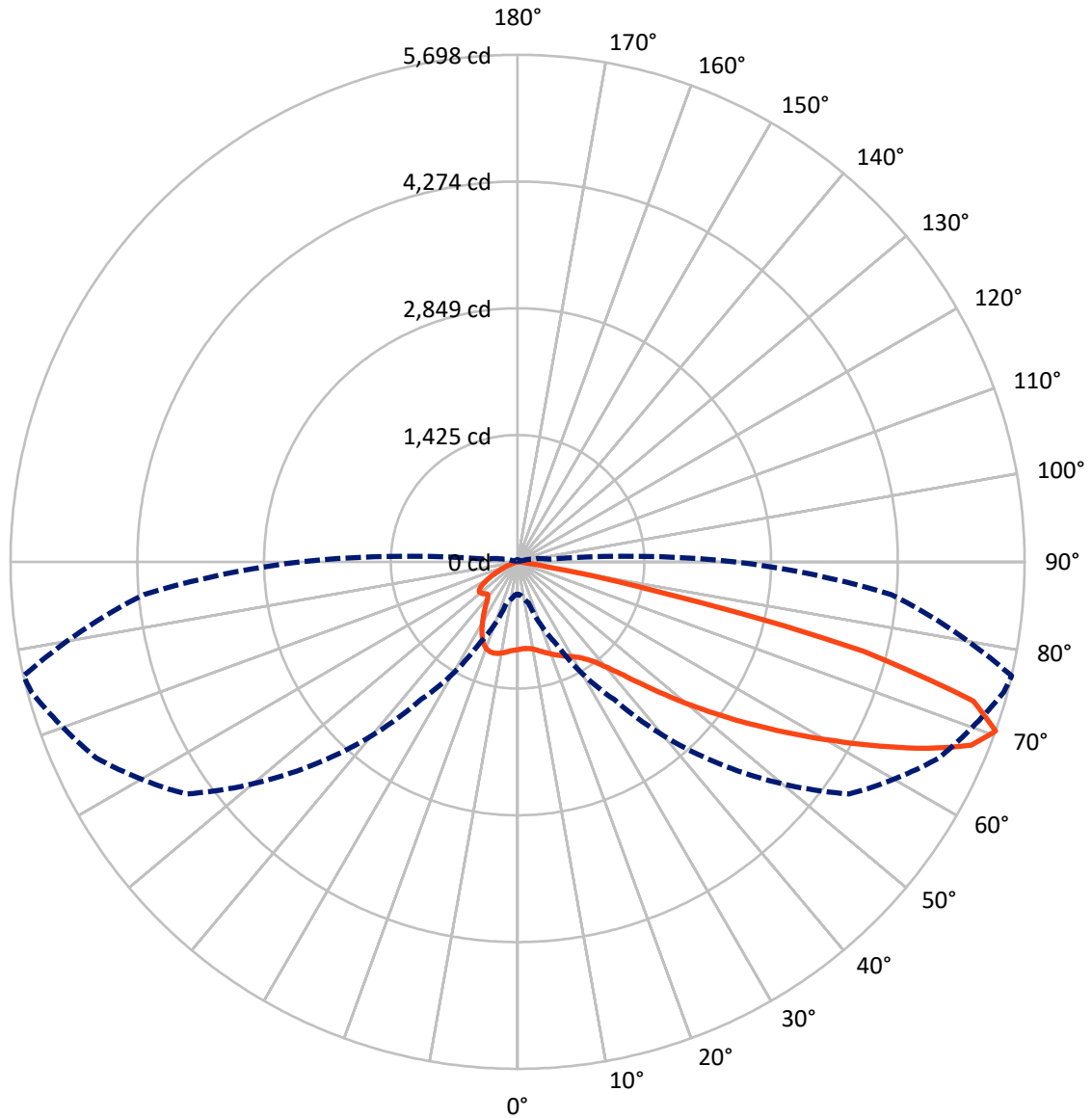
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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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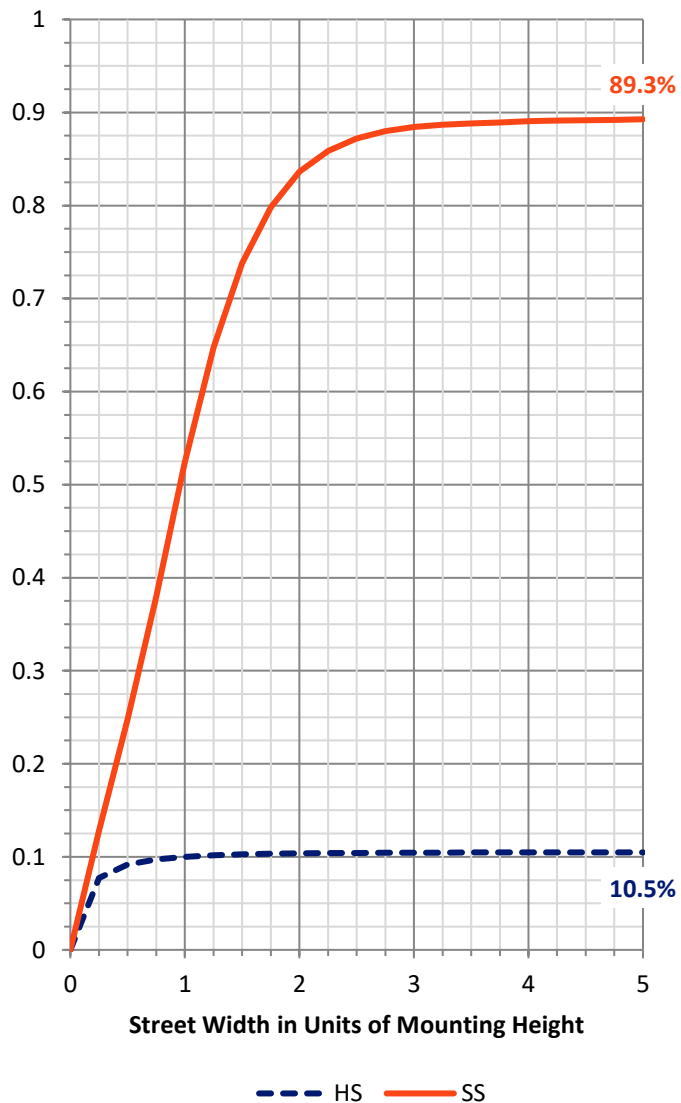
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	666.7	0.0	666.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	5657.6	0.0	5657.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	6324.2	0.0	6324.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.0	1.3
10°-20°	201.8	3.2
20°-30°	312.2	4.9
30°-40°	566.4	9.0
40°-50°	1069.2	16.9
50°-60°	1544.9	24.4
60°-70°	1644.5	26.0
70°-80°	871.5	13.8
80°-90°	28.6	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°	6324.2	100.0
0°-180°	6324.2	100.0

Coefficient of Utilization

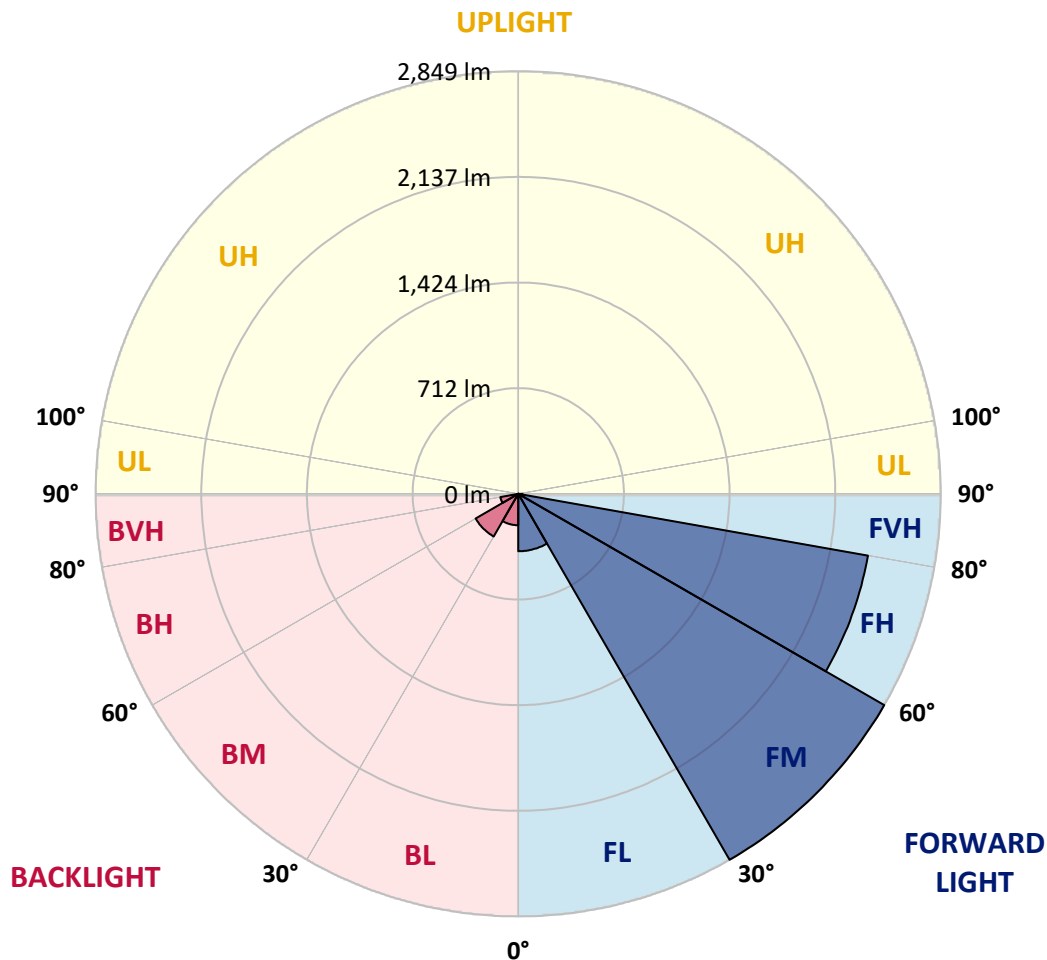


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	387.2	6.1			
FM (30°-60°)	2848.7	45.0			
FH (60°-80°)	2393.8	37.9			G2/5000
FVH (80°-90°)	27.8	0.4			G1/100
BL (0°-30°)	211.8	3.3	B1/500		
BM (30°-60°)	331.9	5.2	B1/1000		
BH (60°-80°)	122.2	1.9	B1/500		G1/500
BVH (80°-90°)	0.8	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°	986.5	986.5	986.5	986.5	986.5	986.5	986.5	986.5	986.5	986.5	986.5
2.5°	926.2	934.6	933.4	938.9	941.0	948.9	956.9	967.7	979.7	979.3	987.3
5°	873.8	882.2	884.3	891.9	901.4	913.8	930.2	951.7	974.1	977.6	993.6
7.5°	811.9	820.7	825.9	841.1	858.6	884.3	911.0	942.5	979.7	984.9	1015.7
10°	750.0	758.0	764.9	786.4	814.4	852.3	895.8	941.4	991.3	998.9	1042.4
12.5°	711.7	719.2	726.8	745.7	780.4	826.8	885.8	946.9	1010.4	1021.2	1078.7
15°	698.1	704.9	710.9	727.6	760.0	812.7	883.9	958.5	1034.8	1049.2	1122.7
17.5°	700.1	703.7	707.7	720.5	752.0	806.4	887.4	978.5	1063.5	1076.4	1166.6
20°	711.7	713.7	714.1	722.8	750.8	805.5	894.6	997.6	1090.7	1107.9	1210.1
22.5°	726.5	727.2	726.5	732.5	758.4	811.5	904.2	1020.8	1121.0	1137.0	1254.1
25°	795.6	780.4	761.3	749.7	771.2	823.1	918.6	1052.0	1154.3	1169.8	1296.8
27.5°	1010.0	966.5	897.8	820.7	797.6	839.9	938.6	1083.5	1187.8	1201.7	1342.7
30°	1358.3	1301.1	1184.6	1010.9	882.2	875.0	964.5	1115.1	1223.3	1238.5	1391.8
32.5°	1707.3	1693.4	1558.8	1318.4	1072.8	953.4	1007.7	1157.8	1270.4	1282.4	1458.2
35°	2060.4	2032.1	1921.8	1684.2	1366.3	1112.6	1079.5	1213.7	1332.3	1345.9	1554.8
37.5°	2330.7	2313.6	2245.4	2049.6	1714.5	1358.7	1202.5	1300.4	1422.2	1437.4	1678.6
40°	2569.6	2561.6	2538.4	2409.5	2103.9	1680.6	1393.8	1434.6	1546.8	1564.8	1830.3
42.5°	2757.4	2776.1	2789.2	2753.4	2505.3	2048.1	1651.1	1623.1	1720.6	1738.9	2023.7
45°	2949.4	2955.8	3008.9	3060.9	2903.9	2432.2	1940.9	1844.0	1936.6	1959.4	2255.3
47.5°	3072.8	3098.4	3191.8	3283.3	3239.0	2813.2	2252.5	2104.7	2187.0	2229.8	2514.9
50°	3082.0	3130.4	3259.0	3418.3	3483.0	3175.9	2591.2	2401.9	2489.3	2536.5	2792.1
52.5°	2929.0	3004.2	3203.4	3436.6	3614.8	3483.0	2941.4	2699.0	2811.3	2872.8	3079.6
55°	2245.7	2344.0	2994.5	3336.8	3620.0	3715.8	3282.5	3008.6	3169.9	3239.4	3390.3
57.5°	1956.5	2006.1	2354.3	3163.5	3523.7	3809.7	3590.8	3303.3	3560.0	3646.3	3683.8
60°	1627.9	1693.0	1974.6	2879.9	3393.2	3818.8	3863.2	3683.4	3983.0	4080.1	3953.0
62.5°	1106.3	1177.0	1456.9	2392.7	3214.6	3814.4	4086.5	4074.9	4453.1	4557.4	4181.1
65°	685.3	729.7	914.2	1953.8	2965.0	3819.3	4320.1	4550.2	4949.1	5055.0	4357.7
67.5°	541.6	561.9	658.2	1500.1	2534.8	3711.4	4553.4	4997.1	5416.0	5499.8	4411.6
70°	363.9	376.2	478.9	1005.6	1885.9	3213.8	4549.0	5221.5	5656.5	5698.4	4215.1
72.5°	191.7	201.3	279.9	465.7	1139.1	2284.4	3834.4	4953.1	5417.2	5354.1	3602.8
75°	95.8	111.8	188.5	236.5	486.5	1274.0	2381.1	3905.1	4263.8	4019.3	2311.6
77.5°	72.7	87.8	155.8	155.8	169.3	429.0	1008.4	2129.8	1964.5	1635.9	678.6
80°	46.3	59.9	136.2	117.8	70.7	109.1	262.8	596.7	417.4	317.5	123.4
82.5°	27.2	39.2	113.5	77.9	39.6	40.4	74.3	127.0	108.2	84.3	37.9
85°	10.8	25.5	77.9	30.7	15.6	9.9	22.3	27.2	22.3	16.8	9.6
87.5°	0.0	5.9	13.5	0.0	1.2	0.8	1.6	1.9	1.9	1.6	3.2
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°	986.5	986.5	986.5	986.5	986.5	986.5	986.5	986.5	986.5	986.5	986.5
2.5°	990.9	991.7	994.0	994.5	988.8	981.6	978.9	977.6	972.9	972.5	973.3
5°	1002.9	1006.4	1002.9	992.5	967.7	933.0	906.6	885.0	865.4	859.5	855.9
7.5°	1026.8	1030.4	1019.6	978.9	916.6	847.5	785.2	741.3	701.7	687.0	680.9
10°	1061.2	1065.9	1032.0	949.8	839.5	728.5	623.0	548.8	490.9	467.3	457.3
12.5°	1104.3	1106.3	1038.8	905.4	739.2	580.7	431.3	351.9	300.3	281.2	275.2
15°	1151.8	1149.0	1039.6	845.1	602.7	410.5	281.6	231.2	210.4	204.1	204.1
17.5°	1201.7	1190.1	1023.6	758.0	452.9	280.7	208.9	196.9	193.3	191.7	191.3
20°	1250.8	1224.9	994.5	644.2	325.1	209.7	189.7	186.1	184.1	183.3	182.6
22.5°	1295.6	1251.2	944.5	512.0	236.1	185.3	179.3	176.1	172.5	171.0	170.6
25°	1339.2	1266.4	874.2	388.6	188.9	173.3	168.5	162.6	157.7	155.8	155.0
27.5°	1381.5	1276.0	786.4	287.5	168.5	162.2	153.3	144.9	141.3	140.6	139.8
30°	1426.6	1279.2	686.5	214.4	156.1	148.2	135.4	125.8	123.8	124.2	124.2
32.5°	1481.7	1284.0	585.9	175.7	145.8	131.4	116.2	106.2	104.7	106.2	105.9
35°	1547.6	1293.6	488.8	161.7	136.6	114.2	97.9	89.5	87.8	89.1	88.7
37.5°	1637.0	1309.1	398.2	159.0	129.0	99.8	82.3	75.4	75.4	75.8	75.4
40°	1756.0	1350.7	317.1	156.9	125.0	89.1	69.5	66.7	67.9	68.7	68.7
42.5°	1901.1	1439.0	262.4	154.6	120.6	84.3	63.1	61.9	63.9	64.7	64.7
45°	2063.6	1550.8	243.2	150.6	116.6	87.4	60.3	58.7	61.1	61.5	61.9
47.5°	2231.7	1660.2	240.9	146.2	112.6	92.2	59.6	55.9	58.7	59.1	59.6
50°	2401.9	1731.7	243.2	139.4	106.2	92.2	59.9	53.1	55.6	56.7	57.1
52.5°	2573.2	1764.4	241.6	124.6	95.0	86.7	59.9	50.7	53.1	53.9	53.9
55°	2739.3	1758.1	217.3	102.6	80.7	76.7	58.3	48.7	50.3	50.7	50.7
57.5°	2870.7	1669.0	172.1	79.8	65.5	63.9	53.1	46.3	47.6	47.2	47.2
60°	2939.4	1473.3	123.0	61.5	51.6	50.3	46.7	43.2	44.0	41.9	41.5
62.5°	2940.2	1214.5	82.3	48.7	41.1	40.0	40.0	38.7	37.9	33.9	32.8
65°	2877.5	927.3	54.7	38.7	33.1	31.2	33.5	33.1	30.3	24.8	24.0
67.5°	2735.3	607.8	41.5	30.3	25.5	24.4	26.8	28.0	25.9	20.8	20.4
70°	2443.0	353.8	34.3	23.6	19.2	17.9	21.5	24.0	21.5	16.8	16.0
72.5°	2029.3	190.9	28.0	17.5	13.2	12.0	17.2	19.6	17.2	12.4	12.0
75°	1316.7	102.2	21.5	11.6	6.8	7.6	12.8	14.3	12.0	8.0	7.2
77.5°	442.1	45.1	13.5	5.6	3.2	3.2	7.6	8.8	5.6	2.8	2.4
80°	98.6	18.8	5.6	2.4	1.2	1.2	1.6	1.6	0.8	0.0	0.0
82.5°	32.4	7.6	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.4	2.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.8	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)