

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: P960296

Luminaire Tested: **NAV-SB1C-727-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960296
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-SB1C-727-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 615mA 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: 5929.6 lumens
Efficiency: N/A
Efficacy: 109.0 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

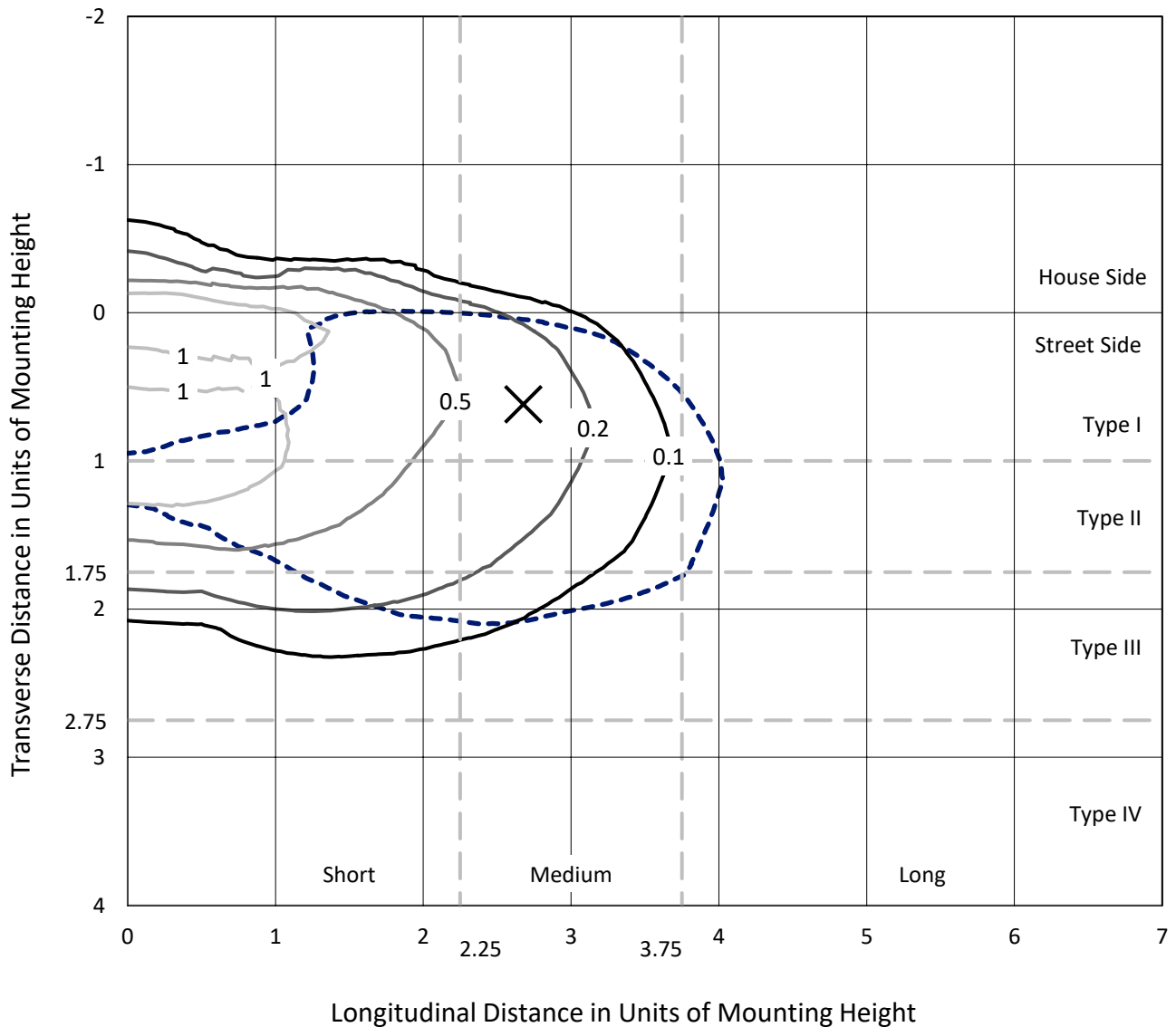
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

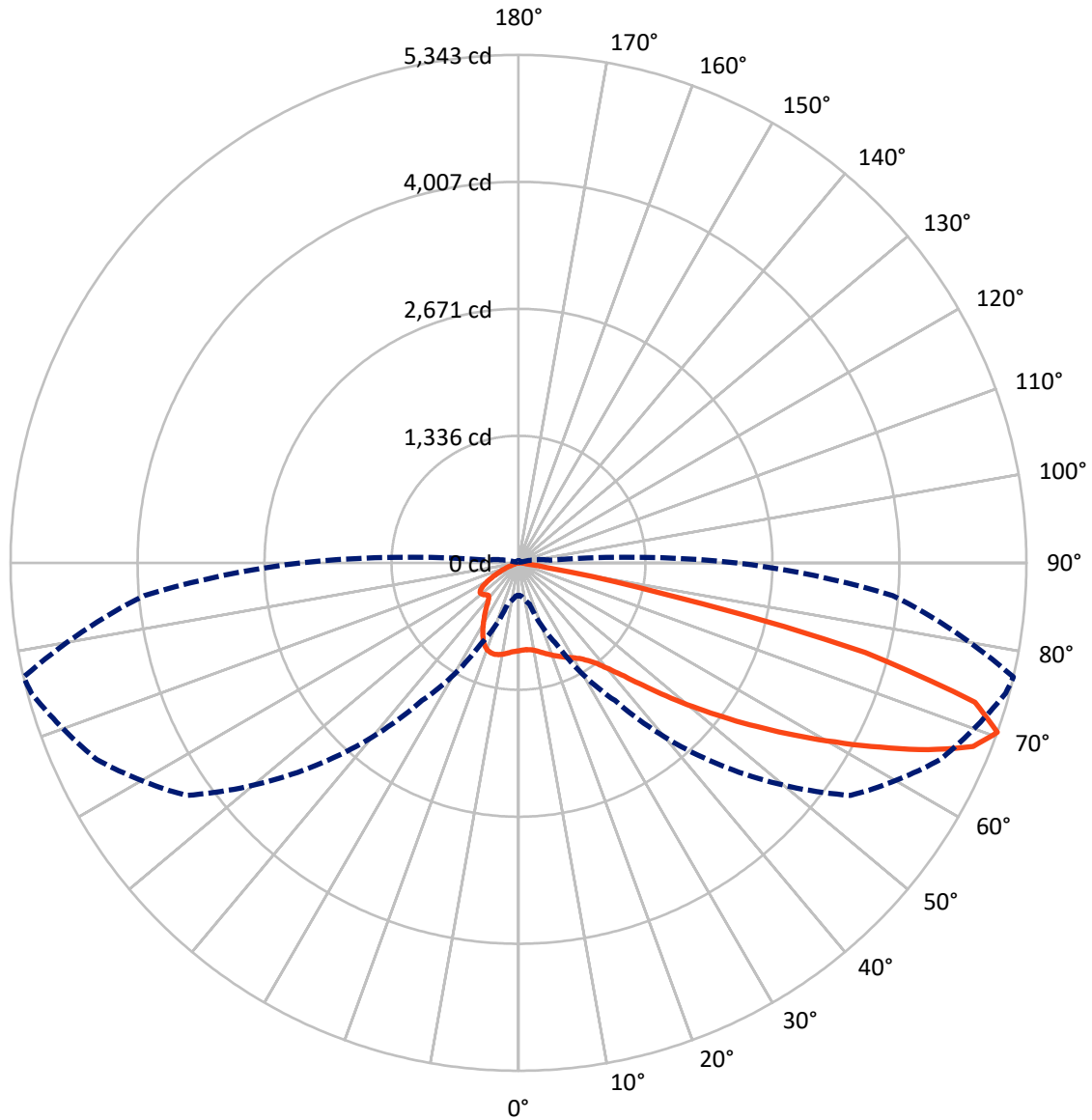
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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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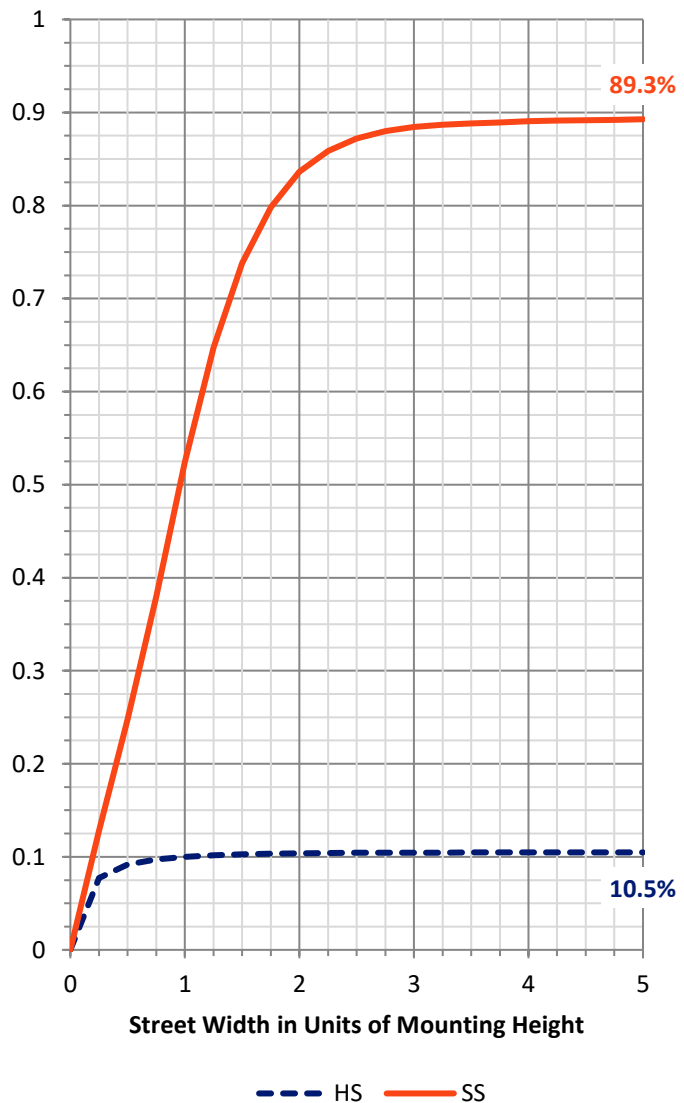
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	625.1	0.0	625.1
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	5304.6	0.0	5304.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	5929.6	0.0	5929.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.7	1.3
10°-20°	189.2	3.2
20°-30°	292.7	4.9
30°-40°	531.1	9.0
40°-50°	1002.5	16.9
50°-60°	1448.5	24.4
60°-70°	1541.9	26.0
70°-80°	817.1	13.8
80°-90°	26.8	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°	5929.6	100.0
0°-180°	5929.6	100.0

Coefficient of Utilization

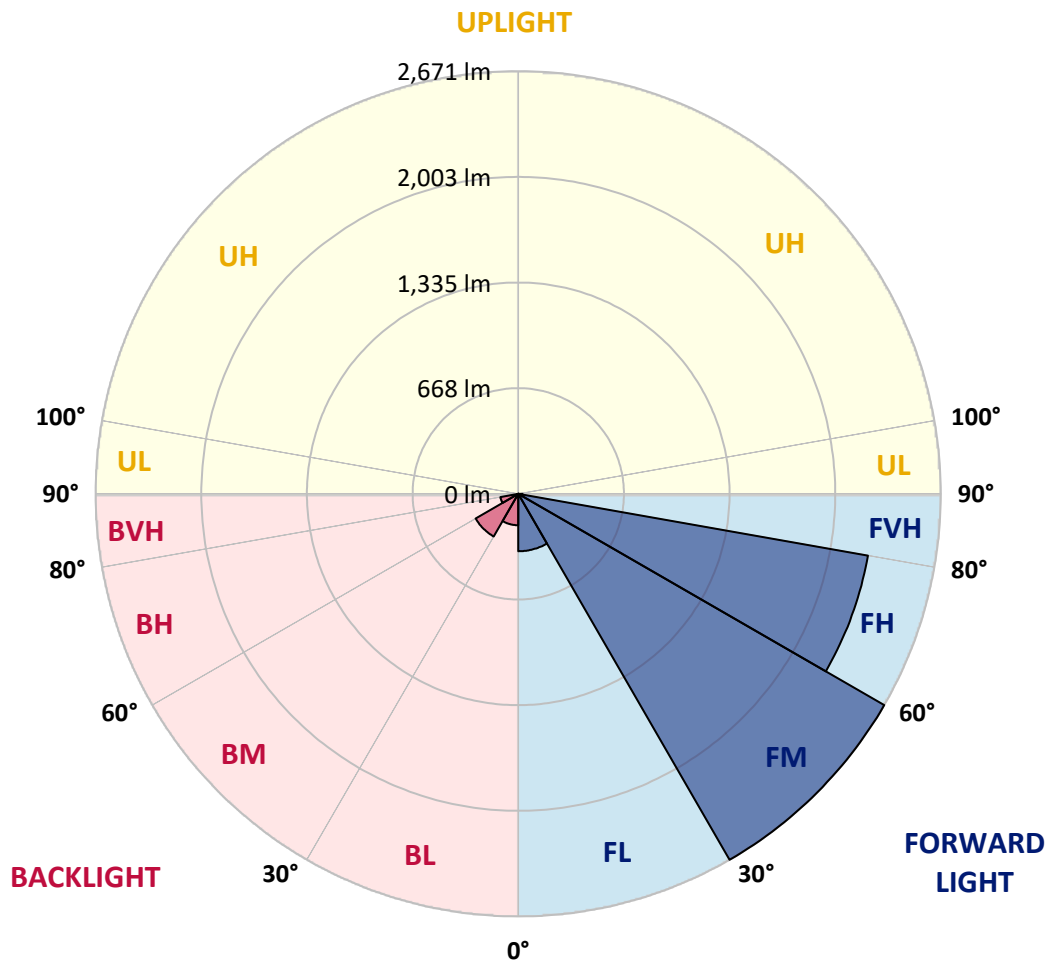


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	363.0	6.1			
FM (30°-60°)	2671.0	45.0			
FH (60°-80°)	2244.5	37.9			G2/5000
FVH (80°-90°)	26.1	0.4			G1/100
BL (0°-30°)	198.6	3.3	B1/500		
BM (30°-60°)	311.2	5.2	B1/1000		
BH (60°-80°)	114.6	1.9	B1/500		G1/500
BVH (80°-90°)	0.7	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°	925.0	925.0	925.0	925.0	925.0	925.0	925.0	925.0	925.0	925.0	925.0
2.5°	868.4	876.3	875.1	880.4	882.2	889.7	897.2	907.3	918.5	918.2	925.7
5°	819.3	827.2	829.0	836.2	845.1	856.8	872.1	892.4	913.3	916.7	931.6
7.5°	761.3	769.5	774.4	788.6	805.1	829.0	854.1	883.8	918.5	923.4	952.2
10°	703.3	710.7	717.1	737.3	763.5	799.1	839.9	882.6	929.4	936.5	977.3
12.5°	667.3	674.4	681.5	699.2	731.6	775.1	830.6	887.9	947.4	957.5	1011.4
15°	654.6	660.9	666.6	682.2	712.6	762.0	828.7	898.7	970.3	983.7	1052.6
17.5°	656.4	659.8	663.6	675.5	705.1	756.0	832.1	917.4	997.2	1009.2	1093.8
20°	667.3	669.1	669.5	677.7	704.0	755.3	838.8	935.4	1022.6	1038.7	1134.6
22.5°	681.1	681.9	681.1	686.7	711.1	760.9	847.8	957.1	1051.1	1066.1	1175.8
25°	745.9	731.6	713.7	702.8	723.0	771.7	861.3	986.4	1082.2	1096.8	1215.9
27.5°	947.0	906.2	841.8	769.5	747.8	787.5	880.0	1015.9	1113.7	1126.8	1258.9
30°	1273.6	1220.0	1110.7	947.7	827.2	820.4	904.4	1045.5	1147.0	1161.2	1305.0
32.5°	1600.8	1587.7	1461.5	1236.0	1005.8	893.8	944.7	1085.6	1191.2	1202.4	1367.1
35°	1931.8	1905.3	1801.8	1579.1	1281.0	1043.2	1012.2	1138.0	1249.2	1261.9	1457.8
37.5°	2185.3	2169.2	2105.2	1921.8	1607.5	1273.9	1127.5	1219.2	1333.4	1347.7	1573.9
40°	2409.3	2401.8	2380.0	2259.1	1972.6	1575.7	1306.9	1345.1	1450.3	1467.1	1716.2
42.5°	2585.3	2602.9	2615.2	2581.6	2349.0	1920.2	1548.1	1521.8	1613.1	1630.4	1897.4
45°	2765.3	2771.4	2821.2	2869.9	2722.7	2280.4	1819.9	1728.9	1815.8	1837.1	2114.6
47.5°	2881.1	2905.1	2992.7	3078.4	3036.9	2637.7	2111.9	1973.4	2050.5	2090.6	2358.0
50°	2889.7	2935.0	3055.6	3205.0	3265.6	2977.7	2429.5	2252.0	2334.0	2378.2	2617.8
52.5°	2746.3	2816.7	3003.6	3222.2	3389.3	3265.6	2757.9	2530.6	2635.8	2693.5	2887.4
55°	2105.6	2197.7	2807.7	3128.6	3394.1	3484.0	3077.7	2820.8	2972.1	3037.3	3178.8
57.5°	1834.4	1880.9	2207.4	2966.0	3303.9	3571.9	3366.7	3097.1	3337.9	3418.8	3454.0
60°	1526.3	1587.3	1851.4	2700.3	3181.4	3580.5	3622.1	3453.6	3734.5	3825.5	3706.4
62.5°	1037.3	1103.5	1366.0	2243.4	3014.0	3576.4	3831.4	3820.6	4175.2	4272.9	3920.2
65°	642.6	684.2	857.1	1831.9	2780.0	3580.9	4050.5	4266.3	4640.3	4739.5	4085.8
67.5°	507.8	526.8	617.2	1406.5	2376.7	3479.9	4269.2	4685.3	5078.1	5156.7	4136.3
70°	341.1	352.7	449.0	942.9	1768.2	3013.3	4265.1	4895.7	5303.5	5342.8	3952.1
72.5°	179.8	188.7	262.5	436.6	1067.9	2141.9	3595.2	4644.1	5079.2	5020.0	3378.0
75°	89.9	104.9	176.7	221.7	456.1	1194.5	2232.6	3661.5	3997.7	3768.5	2167.4
77.5°	68.2	82.4	146.1	146.1	158.8	402.2	945.5	1997.0	1841.9	1533.8	636.2
80°	43.5	56.2	127.7	110.5	66.3	102.2	246.4	559.4	391.3	297.7	115.7
82.5°	25.4	36.7	106.4	73.0	37.1	37.8	69.7	119.1	101.5	79.0	35.6
85°	10.1	24.0	73.0	28.8	14.6	9.3	21.0	25.4	21.0	15.7	9.0
87.5°	0.0	5.6	12.7	0.0	1.1	0.7	1.5	1.8	1.8	1.5	3.0
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°	925.0	925.0	925.0	925.0	925.0	925.0	925.0	925.0	925.0	925.0	925.0
2.5°	929.1	929.8	932.0	932.4	927.1	920.4	917.8	916.7	912.1	911.8	912.6
5°	940.2	943.6	940.2	930.5	907.3	874.7	850.0	829.8	811.5	805.9	802.5
7.5°	962.8	966.1	956.0	917.8	859.4	794.6	736.2	694.9	657.9	644.1	638.5
10°	995.0	999.5	967.6	890.4	787.1	683.1	584.1	514.6	460.2	438.1	428.8
12.5°	1035.4	1037.3	974.0	848.9	693.1	544.5	404.5	329.9	281.6	263.6	258.0
15°	1079.9	1077.3	974.7	792.3	565.1	385.0	264.0	216.8	197.3	191.4	191.4
17.5°	1126.8	1115.9	959.7	710.7	424.7	263.2	195.9	184.6	181.2	179.8	179.4
20°	1172.8	1148.5	932.4	604.0	304.8	196.6	177.8	174.5	172.6	171.9	171.2
22.5°	1214.7	1173.2	885.6	480.0	221.3	173.7	168.1	165.1	161.7	160.3	159.9
25°	1255.5	1187.4	819.7	364.4	177.1	162.6	158.1	152.4	147.9	146.1	145.2
27.5°	1295.3	1196.4	737.3	269.6	158.1	152.0	143.8	135.9	132.5	131.8	131.1
30°	1337.5	1199.4	643.7	201.1	146.4	138.9	126.9	118.0	116.1	116.4	116.4
32.5°	1389.3	1203.9	549.3	164.7	136.6	123.2	109.0	99.6	98.1	99.6	99.2
35°	1451.0	1212.9	458.4	151.7	128.0	107.1	91.7	83.8	82.4	83.5	83.1
37.5°	1534.9	1227.4	373.3	149.0	121.0	93.6	77.2	70.7	70.7	71.1	70.7
40°	1646.5	1266.4	297.4	147.2	117.2	83.5	65.2	62.5	63.7	64.4	64.4
42.5°	1782.5	1349.2	246.0	144.9	113.1	79.0	59.1	58.0	60.0	60.7	60.7
45°	1934.8	1454.1	228.1	141.1	109.4	82.0	56.6	55.0	57.3	57.7	58.0
47.5°	2092.4	1556.7	225.8	137.0	105.6	86.5	55.8	52.4	55.0	55.5	55.8
50°	2252.0	1623.7	228.1	130.7	99.6	86.5	56.2	49.8	52.1	53.2	53.5
52.5°	2412.6	1654.4	226.5	116.8	89.1	81.3	56.2	47.6	49.8	50.5	50.5
55°	2568.4	1648.4	203.7	96.2	75.6	71.9	54.6	45.7	47.2	47.6	47.6
57.5°	2691.6	1564.9	161.4	74.9	61.4	60.0	49.8	43.5	44.6	44.2	44.2
60°	2756.0	1381.4	115.3	57.7	48.3	47.2	43.8	40.5	41.2	39.4	38.9
62.5°	2756.7	1138.8	77.2	45.7	38.5	37.4	37.4	36.3	35.6	31.9	30.7
65°	2698.0	869.5	51.2	36.3	31.1	29.2	31.5	31.1	28.5	23.3	22.4
67.5°	2564.7	569.9	38.9	28.5	24.0	22.9	25.1	26.2	24.3	19.5	19.1
70°	2290.6	331.8	32.2	22.1	17.9	16.8	20.2	22.4	20.2	15.7	15.0
72.5°	1902.6	179.0	26.2	16.5	12.4	11.3	16.1	18.3	16.1	11.6	11.3
75°	1234.6	95.8	20.2	10.9	6.4	7.1	12.0	13.5	11.3	7.5	6.8
77.5°	414.5	42.3	12.7	5.2	3.0	3.0	7.1	8.2	5.2	2.7	2.3
80°	92.5	17.6	5.2	2.3	1.1	1.1	1.5	1.5	0.7	0.0	0.0
82.5°	30.3	7.1	2.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.6	2.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.5	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)