

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: P960454

Luminaire Tested: **NAV-SB1C-760-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960454
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-760-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6151 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

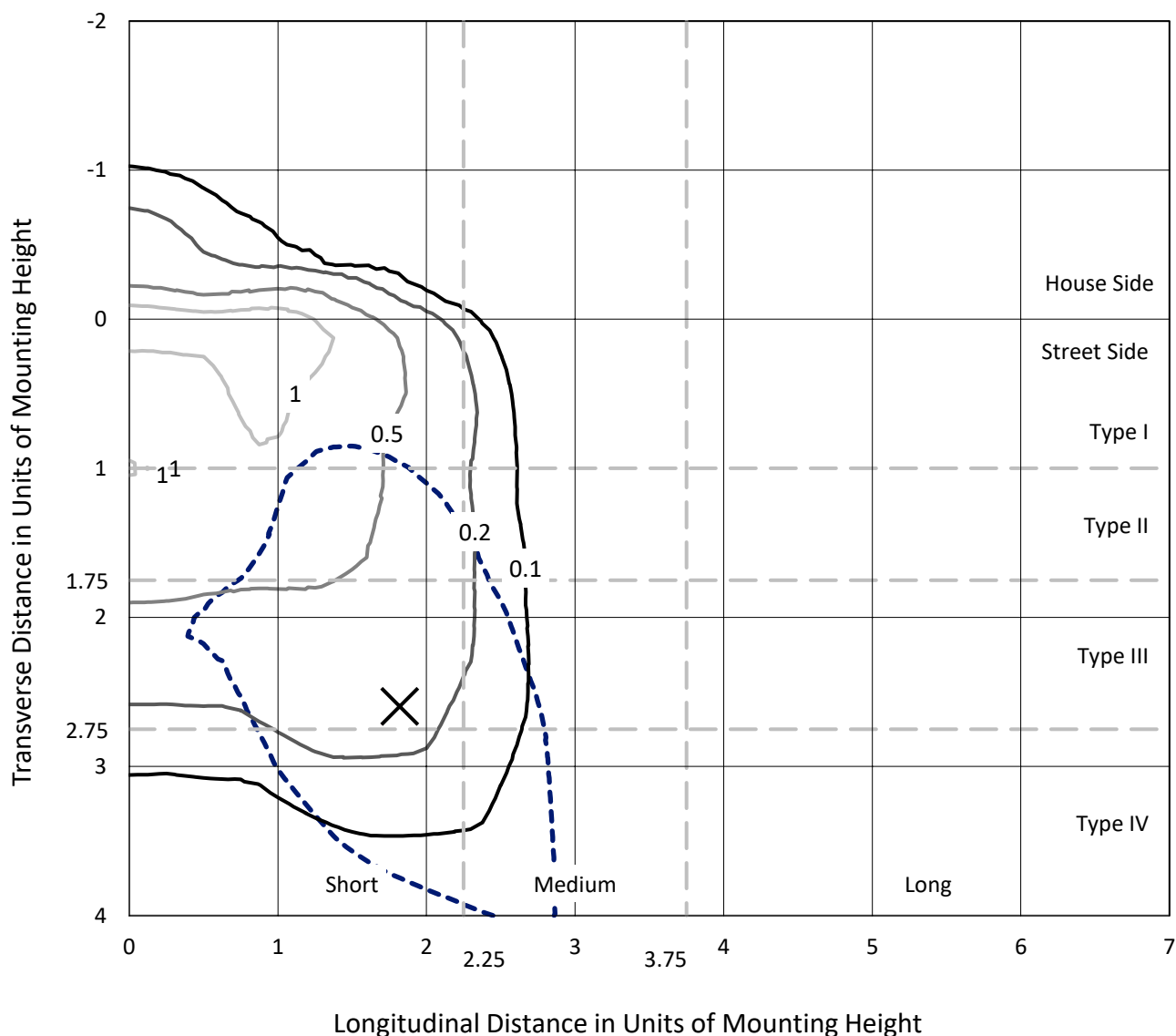
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

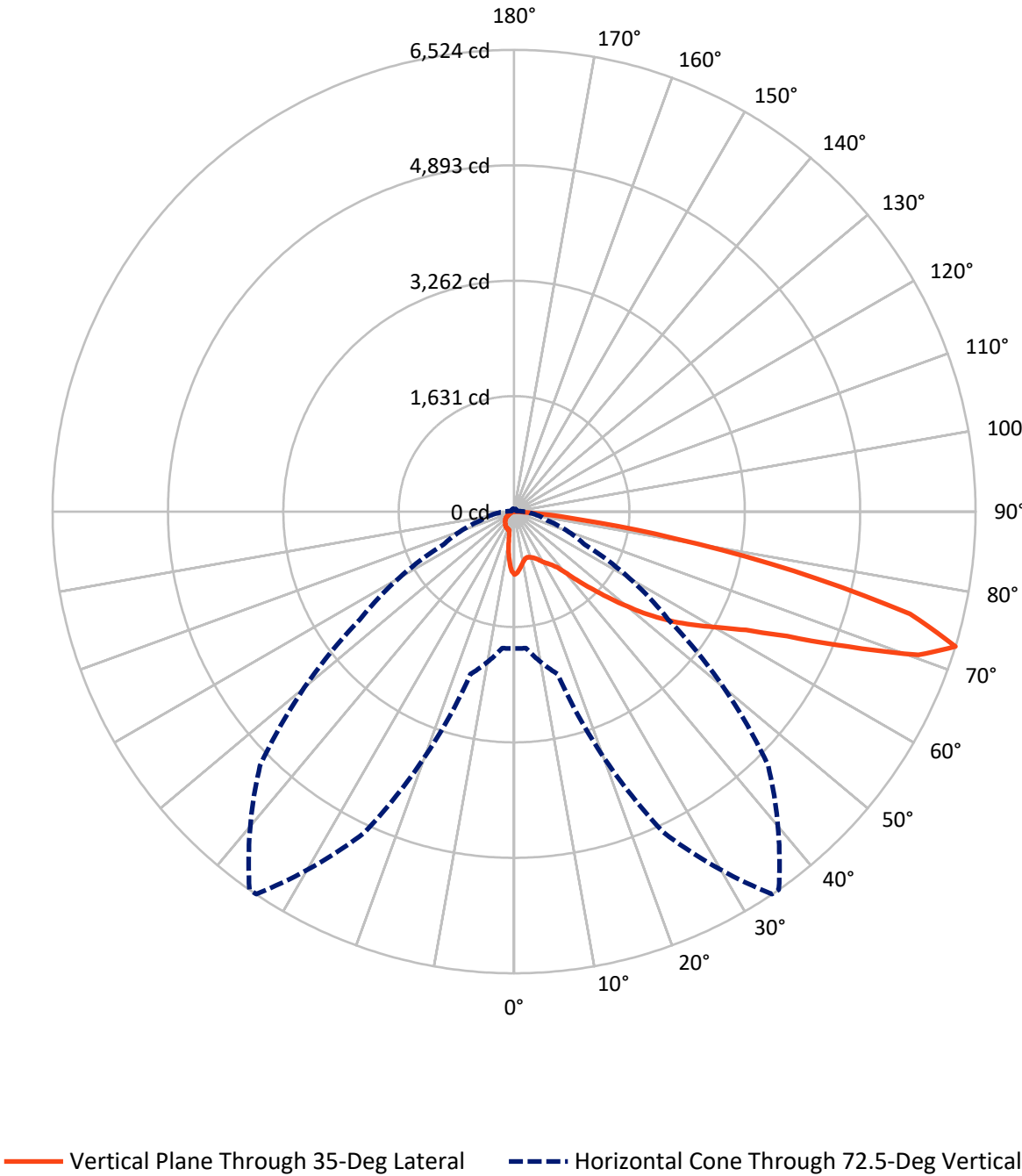
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	692.3	0.0	692.3
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	5458.8	0.0	5458.8
	% Fixture	88.7	0.0	88.7
Total	Lumens	6151.0	0.0	6151.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.3	1.2
10°-20°	171.4	2.8
20°-30°	278.4	4.5
30°-40°	464.5	7.6
40°-50°	878.8	14.3
50°-60°	1396.5	22.7
60°-70°	1727.5	28.1
70°-80°	1073.9	17.5
80°-90°	86.8	1.4
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°	6151.0	100.0
0°-180°	6151.0	100.0

Coefficient of Utilization



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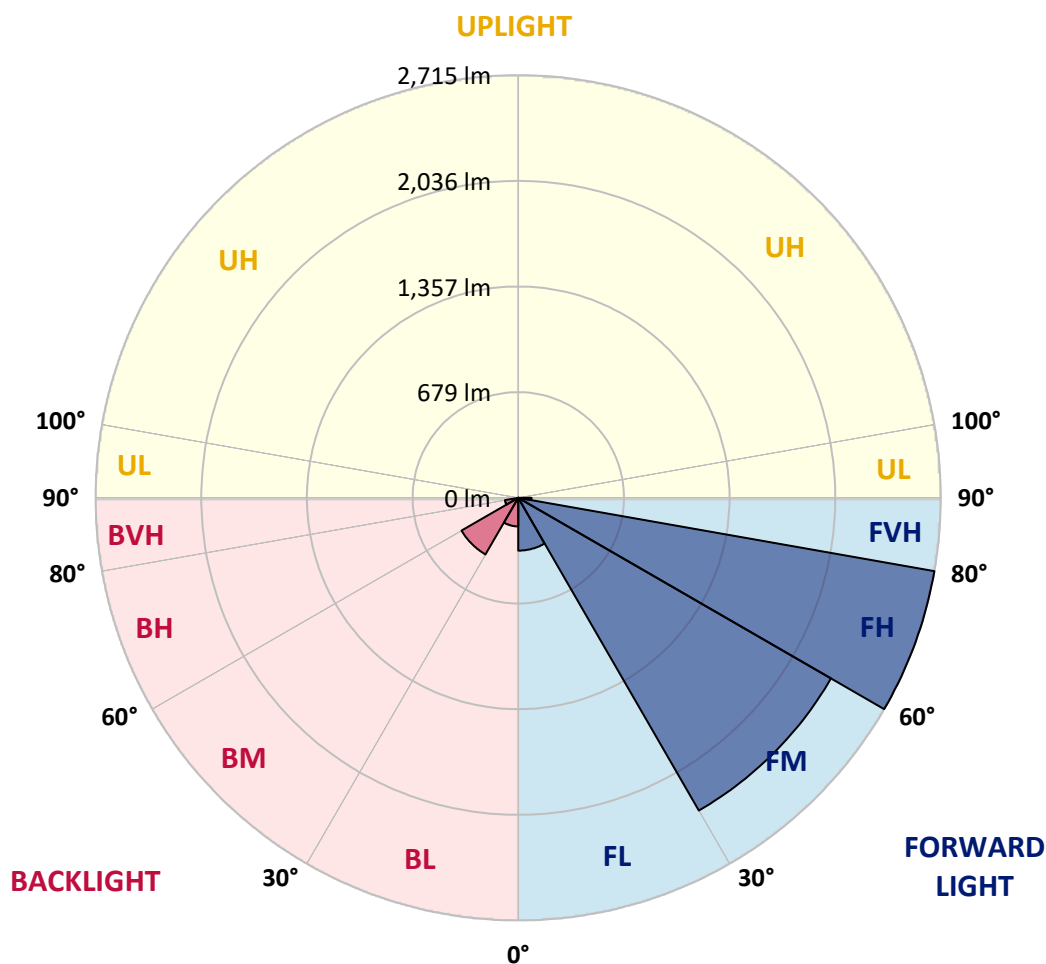
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	339.1	5.5			
FM	(30°-60°)	2319.6	37.7			
FH	(60°-80°)	2714.5	44.1			G2/5000
FVH	(80°-90°)	85.6	1.4			G1/100
BL	(0°-30°)	183.9	3.0	B1/500		
BM	(30°-60°)	420.3	6.8	B1/1000		
BH	(60°-80°)	86.9	1.4	B0/110		G0/110
BVH	(80°-90°)	1.2	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	891.4	891.4	891.4	891.4	891.4	891.4	891.4	891.4	891.4	891.4	891.4
2.5°	851.9	859.1	860.4	862.6	862.6	865.3	869.8	876.2	886.5	892.0	895.5
5°	785.2	790.6	797.2	802.7	813.0	814.5	832.0	849.1	873.0	891.0	903.6
7.5°	718.0	724.3	733.3	746.4	759.9	763.9	790.6	819.4	857.2	891.0	912.2
10°	670.7	671.1	679.2	692.3	713.9	718.8	751.3	792.3	839.7	885.6	920.3
12.5°	644.0	647.2	650.8	660.7	681.4	684.6	719.3	767.5	822.0	882.5	929.8
15°	644.0	646.3	648.5	653.5	670.1	672.9	703.6	751.7	813.0	883.9	945.2
17.5°	650.8	654.5	652.6	658.5	676.1	677.8	704.9	747.2	812.6	892.4	968.5
20°	667.1	669.7	666.1	669.7	687.4	691.0	718.8	755.8	820.3	907.2	997.8
22.5°	692.7	694.1	685.5	688.2	706.2	710.7	743.2	780.1	838.8	931.1	1037.1
25°	725.2	727.9	714.8	718.0	735.1	740.5	777.9	816.7	868.1	964.0	1087.1
27.5°	762.6	763.9	752.7	752.2	774.3	782.0	819.8	861.7	907.2	1005.5	1150.2
30°	805.4	809.4	798.7	796.8	824.8	831.1	868.5	917.2	964.9	1067.7	1239.8
32.5°	839.2	842.3	836.1	840.6	869.0	873.9	927.5	995.6	1055.5	1156.1	1362.0
35°	887.9	889.7	875.2	883.3	915.8	928.4	1008.2	1105.6	1169.5	1266.9	1521.6
37.5°	1064.2	1064.2	1002.9	962.7	993.8	1005.1	1118.7	1243.9	1310.2	1415.6	1722.6
40°	1307.9	1303.9	1214.2	1132.2	1128.1	1150.2	1275.9	1418.4	1491.8	1594.2	1948.8
42.5°	1568.0	1561.7	1439.5	1358.4	1344.9	1352.6	1457.6	1633.3	1708.2	1811.8	2192.2
45°	1798.8	1796.9	1685.2	1576.1	1551.7	1576.1	1684.3	1884.9	1938.5	2047.5	2435.2
47.5°	1992.1	1992.1	1910.5	1839.4	1826.7	1841.1	1991.2	2163.8	2158.9	2298.6	2671.8
50°	2214.7	2213.0	2135.4	2104.7	2117.9	2138.1	2344.6	2457.6	2386.9	2545.1	2883.1
52.5°	2370.7	2381.5	2354.9	2349.9	2416.6	2451.8	2703.3	2745.3	2591.1	2779.1	3041.4
55°	2494.2	2506.8	2537.5	2572.1	2700.6	2746.6	3050.8	3017.9	2761.9	2981.8	3132.4
57.5°	2669.1	2651.1	2698.3	2766.9	2974.7	3030.1	3387.5	3275.3	2899.4	3146.3	3142.3
60°	2881.4	2884.0	2892.1	2978.6	3248.2	3319.5	3719.2	3518.6	2987.7	3247.3	3032.4
62.5°	3136.4	3140.5	3157.2	3290.1	3615.6	3682.7	4072.5	3717.9	3028.3	3218.9	2748.4
65°	3118.9	3136.0	3322.1	3776.9	4174.0	4240.2	4485.0	3857.6	2967.0	2959.3	2237.8
67.5°	2841.2	2869.2	3180.6	4358.3	5015.8	5089.7	4983.4	3885.1	2702.4	2301.3	1459.8
70°	2477.0	2487.0	2861.5	4881.2	5990.7	6065.5	5429.6	3582.7	2050.7	1283.6	653.9
72.5°	1934.4	1936.6	2376.2	5002.3	6519.8	6523.9	5079.4	2659.6	1102.9	493.0	227.1
75°	1381.9	1368.4	1591.4	4056.7	5736.1	5782.0	3808.0	1247.5	421.4	233.0	113.2
77.5°	741.0	755.8	900.5	2405.9	3962.5	4041.0	2077.8	359.7	214.5	158.7	74.8
80°	229.0	241.6	369.1	1101.6	2244.5	2291.8	770.3	160.0	149.6	113.2	49.1
82.5°	72.2	74.8	172.2	462.9	931.6	953.2	223.1	90.6	102.3	74.8	28.8
85°	20.7	21.2	76.7	172.6	230.3	234.8	62.6	35.2	58.6	46.4	14.9
87.5°	2.3	7.2	28.8	28.8	20.3	19.8	6.8	7.7	16.7	5.8	2.7
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°	891.4	891.4	891.4	891.4	891.4	891.4	891.4	891.4	891.4	891.4	891.4
2.5°	893.3	893.7	887.9	878.0	867.2	858.1	846.9	837.8	831.6	829.7	832.9
5°	899.6	896.5	879.8	849.6	813.5	782.4	747.7	720.3	702.2	694.5	697.2
7.5°	909.1	900.1	863.6	804.0	735.1	673.8	611.6	563.3	532.7	517.4	519.7
10°	917.2	899.1	836.5	738.2	632.8	540.0	456.1	398.0	365.5	350.2	350.7
12.5°	924.9	898.7	801.3	660.3	517.4	403.8	325.8	297.0	288.0	284.8	283.9
15°	939.3	900.1	757.2	571.0	402.5	305.1	276.8	276.2	278.1	277.2	276.8
17.5°	959.1	901.4	707.1	476.4	310.6	269.1	267.7	271.7	274.5	273.2	272.6
20°	984.8	906.8	653.9	382.6	266.8	260.0	263.2	266.8	269.1	266.8	266.4
22.5°	1020.8	916.2	595.8	307.4	252.9	254.6	257.4	261.4	263.6	260.6	260.0
25°	1065.0	931.1	538.6	267.2	246.1	248.4	252.4	256.9	259.6	256.5	256.0
27.5°	1122.3	955.0	485.8	258.3	239.3	240.7	246.5	253.3	256.9	252.9	252.9
30°	1205.2	994.2	440.3	262.3	235.2	232.2	240.3	249.7	253.8	250.1	249.7
32.5°	1315.2	1049.7	412.4	268.7	233.5	222.2	229.9	242.0	248.8	246.5	246.5
35°	1459.4	1134.0	401.6	275.8	232.2	211.9	217.2	230.3	242.0	244.3	244.3
37.5°	1634.3	1251.1	404.8	279.0	228.1	203.3	205.9	217.2	232.6	239.7	241.6
40°	1833.0	1387.7	422.7	275.8	223.6	196.1	196.5	205.1	218.6	229.4	233.0
42.5°	2038.1	1547.2	456.1	264.1	219.5	189.7	188.4	194.2	203.3	210.9	214.1
45°	2233.3	1711.3	489.0	247.8	214.5	183.5	180.3	182.6	184.3	187.5	189.3
47.5°	2403.6	1826.7	479.6	233.0	207.8	176.2	170.9	169.9	164.5	164.1	163.6
50°	2521.2	1852.0	425.9	218.1	197.8	168.1	159.6	154.2	144.6	140.1	140.6
52.5°	2558.6	1752.3	348.0	203.3	181.6	157.3	145.1	136.5	124.8	120.7	120.3
55°	2509.1	1557.2	278.1	185.2	159.1	142.9	129.4	118.1	108.6	103.6	103.6
57.5°	2387.8	1308.8	220.0	164.1	135.2	126.7	113.2	101.9	93.8	88.8	87.8
60°	2186.8	1039.4	173.9	138.8	115.4	109.1	95.1	87.8	80.7	74.8	73.5
62.5°	1881.7	741.9	136.5	110.0	96.5	89.3	81.1	75.7	67.1	59.0	57.7
65°	1468.4	453.9	105.5	80.7	77.5	73.9	69.0	64.0	53.6	45.5	44.2
67.5°	926.2	214.9	75.2	60.9	61.3	59.4	57.2	53.2	45.5	38.3	37.4
70°	407.8	104.1	49.6	46.4	45.5	45.5	47.4	46.0	38.7	32.0	30.6
72.5°	138.8	55.9	37.0	35.2	32.9	32.5	39.7	38.3	31.1	24.8	23.5
75°	72.6	37.4	27.1	25.2	19.8	23.9	31.6	29.7	22.0	16.2	14.9
77.5°	47.4	26.5	18.4	16.2	11.3	15.8	23.5	20.7	13.1	8.1	7.2
80°	29.7	17.5	10.9	7.7	5.4	8.6	12.6	9.0	4.9	1.8	1.3
82.5°	15.8	9.0	4.1	2.7	2.3	2.7	3.2	2.3	0.9	0.0	0.0
85°	6.4	3.2	1.3	0.9	0.4	0.0	0.9	0.4	0.0	0.0	0.0
87.5°	2.3	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)