

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: P961442

Luminaire Tested: **NAV-SB2A-740-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961442
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2A-740-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7629.1 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
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



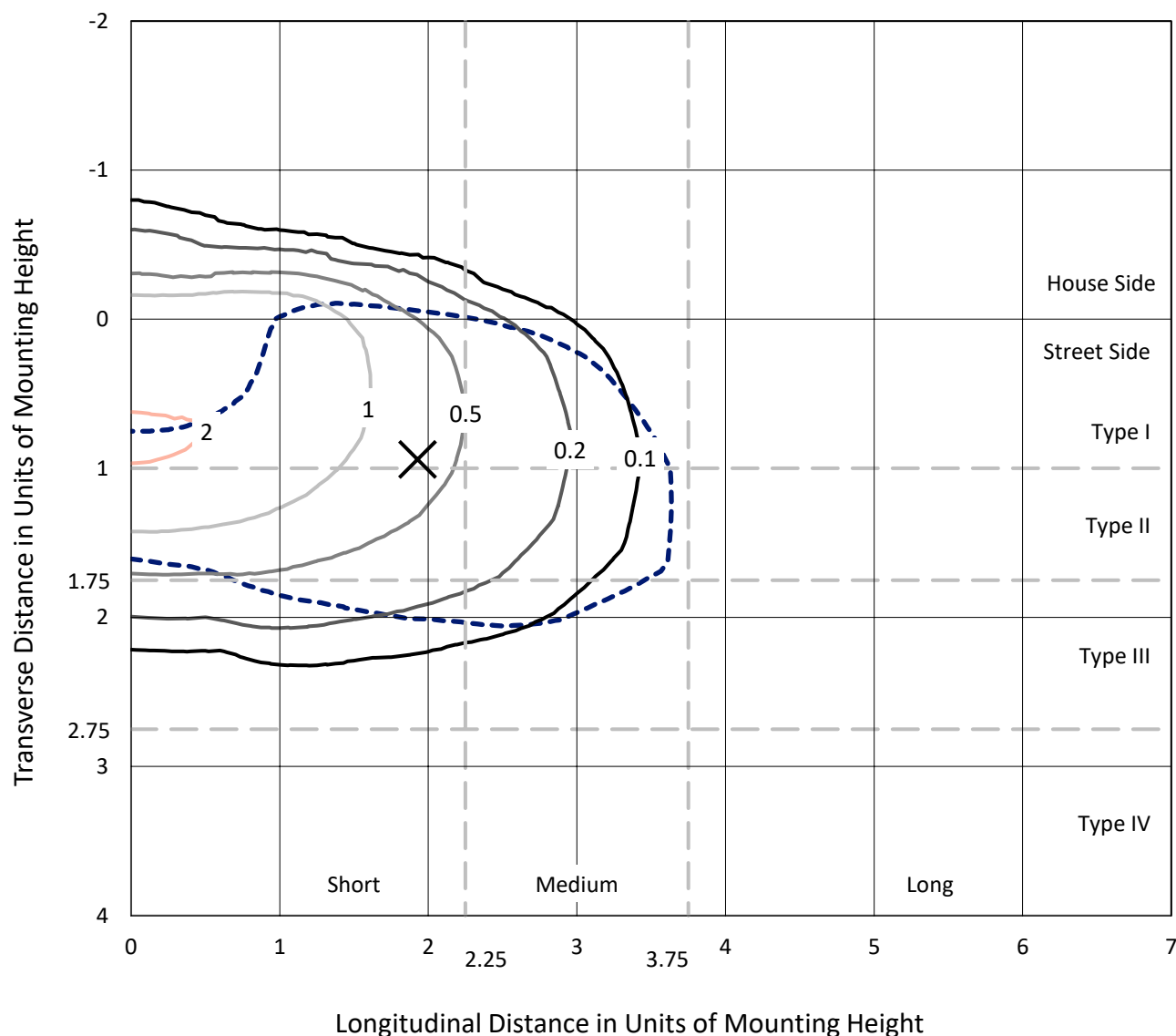
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

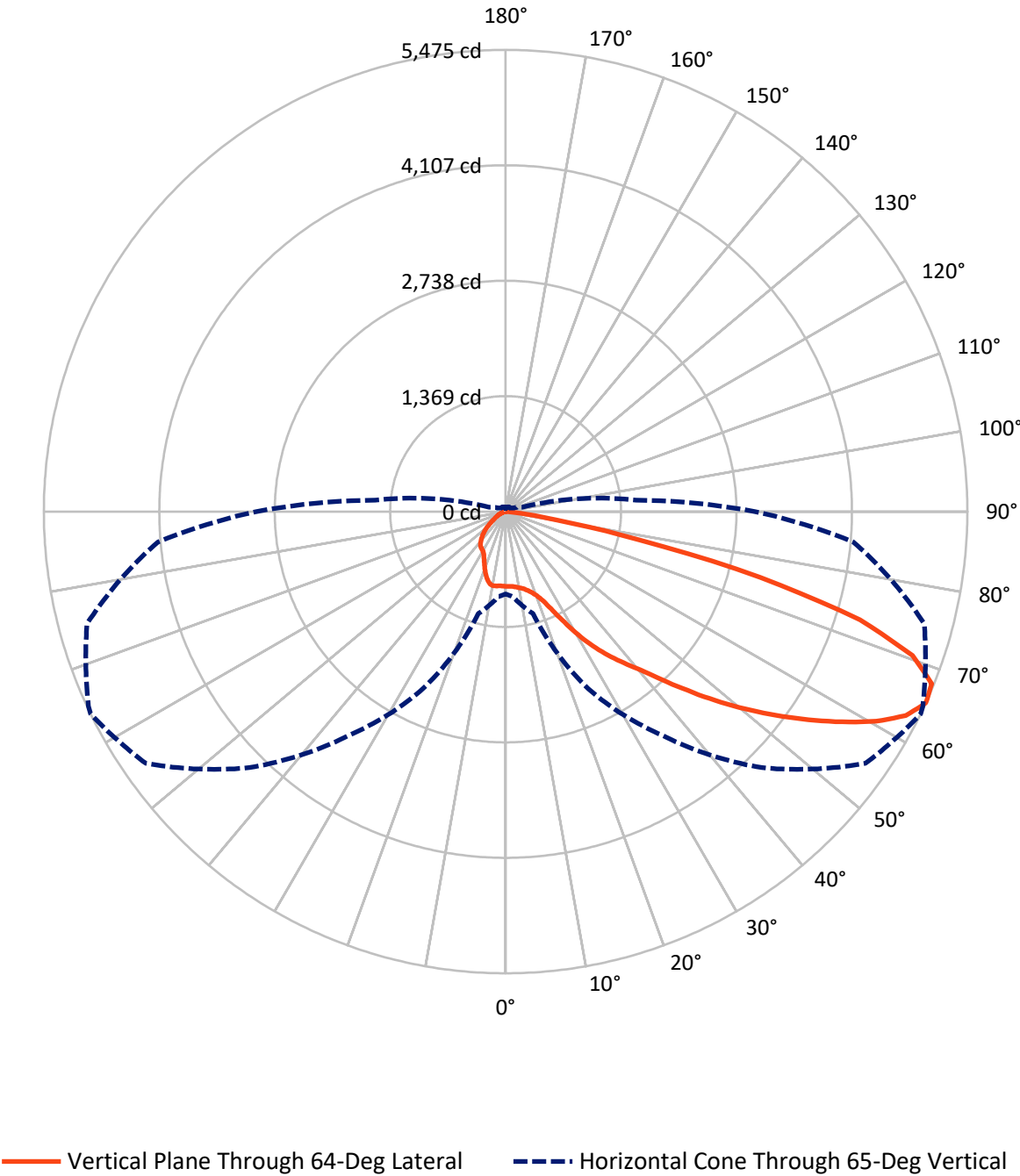


Based on 25 foot mounting height. Maximum calculated value = 2.2 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1020.2	0.0	1020.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	6608.8	0.0	6608.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	7629.1	0.0	7629.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.9	1.1
10°-20°	222.0	2.9
20°-30°	420.8	5.5
30°-40°	851.4	11.2
40°-50°	1450.4	19.0
50°-60°	1972.4	25.9
60°-70°	1852.2	24.3
70°-80°	742.1	9.7
80°-90°	35.9	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°	7629.1	100.0
0°-180°	7629.1	100.0

Coefficient of Utilization



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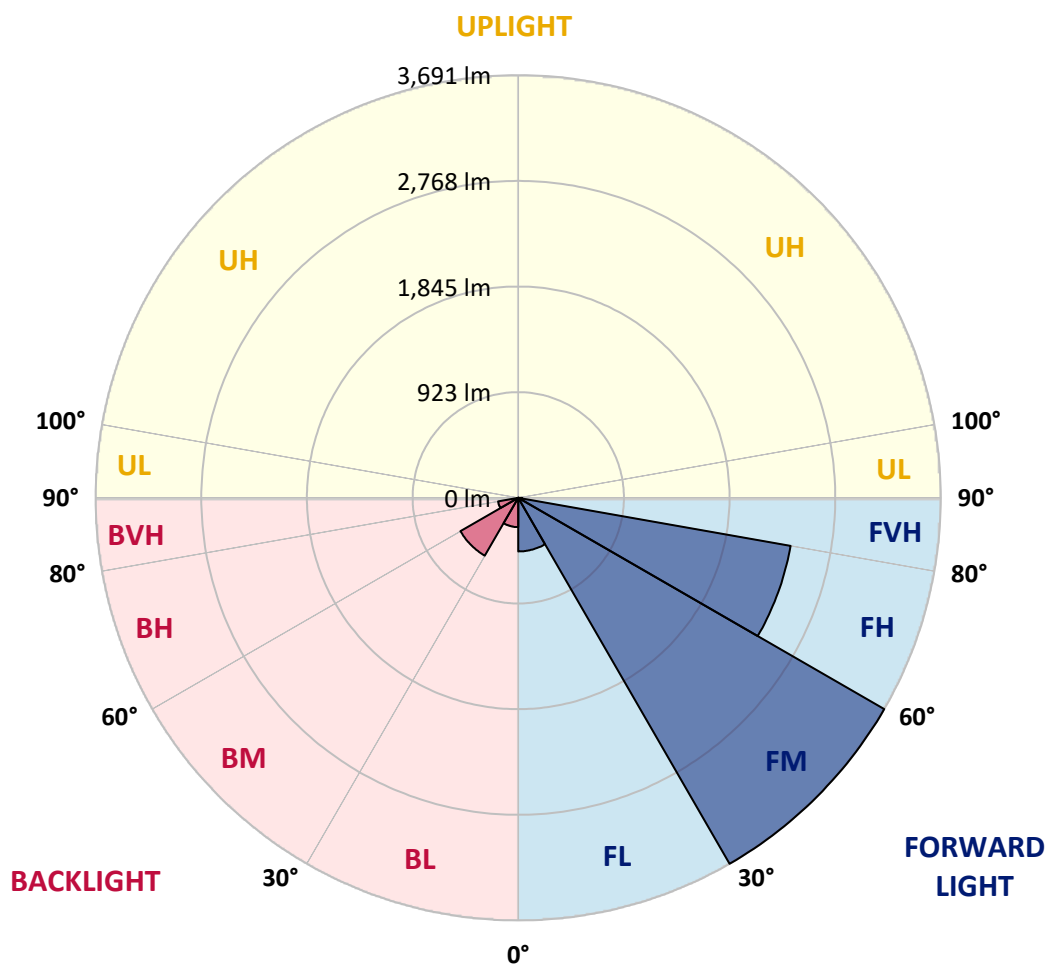
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	468.5	6.1			
FM	(30°-60°)	3690.9	48.4			
FH	(60°-80°)	2415.2	31.7			G2/5000
FVH	(80°-90°)	34.2	0.4			G1/100
BL	(0°-30°)	256.2	3.4	B1/500		
BM	(30°-60°)	583.3	7.6	B1/1000		
BH	(60°-80°)	179.1	2.3	B1/500		G1/500
BVH	(80°-90°)	1.8	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	887.3	887.3	887.3	887.3	887.3	887.3	887.3	887.3	887.3	887.3	887.3
2.5°	884.3	890.4	888.9	887.3	886.8	887.9	888.4	887.9	887.9	887.9	888.4
5°	867.4	872.5	872.5	876.1	881.2	887.3	892.0	893.0	894.0	895.5	895.0
7.5°	835.2	839.3	842.3	854.1	866.8	883.2	897.1	904.3	905.3	910.9	912.9
10°	813.1	818.3	823.4	835.7	854.1	878.6	902.2	919.5	922.1	935.4	941.6
12.5°	812.2	817.2	823.9	837.2	858.7	884.8	913.4	938.5	943.1	962.5	975.3
15°	822.9	829.0	835.2	851.6	874.5	906.3	937.0	968.1	972.7	1000.4	1014.1
17.5°	844.9	853.1	857.7	874.0	898.6	933.9	974.3	1010.0	1014.1	1046.4	1063.7
20°	888.4	898.1	899.6	912.9	937.0	974.8	1022.8	1067.3	1072.5	1109.3	1128.7
22.5°	978.4	992.2	979.9	986.6	1008.1	1045.9	1098.1	1154.4	1161.4	1203.5	1220.8
25°	1136.9	1156.4	1124.6	1113.4	1122.6	1161.9	1227.4	1298.6	1306.7	1340.5	1349.2
27.5°	1448.4	1423.3	1375.2	1328.2	1300.6	1323.1	1396.8	1484.7	1495.0	1527.7	1517.4
30°	1790.6	1768.5	1703.6	1599.3	1533.8	1530.2	1598.3	1696.5	1708.2	1739.4	1708.2
32.5°	2133.2	2112.2	2041.7	1913.3	1799.7	1743.5	1790.6	1899.4	1905.6	1925.6	1879.5
35°	2470.2	2448.7	2378.2	2246.7	2107.1	1979.3	1970.0	2092.8	2094.8	2115.8	2047.2
37.5°	2809.3	2791.4	2716.2	2587.3	2449.8	2273.3	2188.0	2275.9	2278.5	2298.9	2227.8
40°	3051.2	3058.9	3007.2	2907.5	2789.3	2596.5	2432.4	2470.8	2455.4	2489.6	2447.2
42.5°	3258.9	3274.3	3229.2	3179.0	3110.6	2940.7	2735.1	2728.5	2704.0	2722.4	2678.4
45°	3438.4	3451.2	3410.8	3399.0	3397.5	3278.3	3066.1	3026.2	2991.9	2988.3	2935.6
47.5°	3504.4	3528.9	3546.3	3585.7	3662.4	3612.3	3408.2	3346.3	3308.0	3279.8	3196.5
50°	3529.4	3555.5	3614.9	3729.4	3911.0	3932.4	3748.8	3679.2	3632.2	3581.0	3458.4
52.5°	3495.7	3542.2	3621.9	3814.8	4078.2	4189.2	4075.6	4014.7	3961.1	3877.7	3695.6
55°	3296.7	3343.2	3506.4	3813.8	4161.5	4369.2	4384.5	4357.5	4297.1	4165.6	3887.4
57.5°	2877.4	2946.4	3204.7	3683.8	4160.1	4524.1	4687.3	4706.7	4639.3	4451.1	4038.3
60°	2296.3	2389.9	2705.0	3395.9	4031.6	4608.0	4952.7	5049.9	4978.3	4732.3	4160.6
62.5°	1602.3	1710.7	2008.9	2944.8	3738.1	4547.7	5146.5	5326.1	5271.9	4984.0	4207.6
65°	977.3	1012.1	1252.6	2317.3	3238.9	4295.1	5206.4	5475.4	5457.5	5137.9	4138.0
67.5°	651.1	680.2	749.3	1589.1	2514.2	3790.2	5063.2	5449.3	5454.4	5112.8	3883.3
70°	392.3	417.4	462.4	924.1	1629.4	3000.1	4619.8	5116.9	5146.5	4777.8	3400.5
72.5°	161.6	178.5	219.5	418.8	843.9	1904.0	3678.7	4393.3	4462.2	4017.3	2609.9
75°	91.5	100.2	128.8	210.2	366.2	887.3	2228.4	3118.8	3220.5	2768.9	1570.1
77.5°	60.9	65.0	83.3	136.0	206.1	302.8	952.3	1624.8	1819.2	1512.3	679.7
80°	40.9	44.5	57.3	91.0	134.0	129.9	303.3	602.0	740.6	519.6	165.7
82.5°	27.6	28.1	40.9	59.9	84.9	62.9	89.5	187.2	235.2	150.4	62.9
85°	15.9	15.4	30.1	34.7	37.8	26.0	27.1	56.3	73.7	63.4	35.8
87.5°	2.0	3.1	11.8	9.2	5.1	5.6	5.6	9.7	14.3	15.4	7.7
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°	887.3	887.3	887.3	887.3	887.3	887.3	887.3	887.3	887.3	887.3	887.3
2.5°	888.4	887.9	886.3	884.8	881.2	879.1	880.2	879.1	878.6	879.1	881.2
5°	895.0	893.5	889.4	884.3	877.1	868.4	862.7	854.6	847.0	842.3	843.4
7.5°	912.9	911.3	905.8	891.4	868.4	832.1	798.9	769.7	747.7	734.9	735.4
10°	941.6	939.0	930.3	898.6	838.2	759.0	693.0	638.3	602.5	585.6	584.0
12.5°	975.3	972.2	956.9	892.0	780.9	657.2	566.2	505.3	472.0	457.3	455.7
15°	1015.2	1011.1	980.9	860.3	697.6	544.7	461.4	415.8	394.3	381.0	381.5
17.5°	1064.8	1057.7	998.9	812.6	607.1	458.8	396.9	362.6	343.7	330.9	329.8
20°	1129.2	1117.5	1013.1	755.9	523.7	404.6	353.4	324.7	310.5	299.2	297.1
22.5°	1219.2	1202.4	1030.5	694.5	464.9	367.3	321.1	300.2	288.4	275.6	273.6
25°	1330.8	1310.8	1052.1	637.8	424.5	335.0	297.7	280.2	266.5	251.6	250.1
27.5°	1486.8	1451.0	1077.6	591.2	389.7	307.4	276.1	256.8	240.9	228.6	226.0
30°	1660.6	1601.8	1100.1	563.1	358.0	281.8	248.0	228.6	213.8	205.1	203.6
32.5°	1825.3	1745.6	1114.9	550.8	329.3	252.7	217.4	196.4	185.1	182.6	184.1
35°	1980.8	1875.4	1113.4	539.0	303.8	223.4	187.2	165.7	157.0	158.6	158.6
37.5°	2159.8	2014.0	1102.7	520.6	282.8	196.9	161.1	142.2	134.5	135.0	137.0
40°	2368.0	2174.1	1096.0	485.8	259.8	172.4	139.6	124.2	118.7	116.6	116.1
42.5°	2589.9	2329.1	1097.1	446.5	231.1	150.4	124.7	112.0	106.9	105.4	104.9
45°	2812.9	2476.9	1098.6	405.6	201.0	133.5	114.1	103.3	100.2	98.2	98.2
47.5°	3022.6	2602.7	1069.9	361.6	171.4	120.7	105.4	98.2	95.6	93.1	93.1
50°	3218.0	2686.5	1000.9	310.5	147.8	110.5	98.7	93.6	91.0	88.5	88.5
52.5°	3369.9	2699.8	886.8	257.8	131.4	102.8	94.6	90.0	86.9	84.4	83.8
55°	3437.3	2616.5	724.7	208.7	118.7	96.1	90.5	85.9	82.3	79.7	79.2
57.5°	3420.0	2441.0	565.2	167.8	106.4	89.5	85.4	82.3	78.2	74.1	73.7
60°	3334.5	2206.3	426.0	139.6	95.1	82.3	79.7	77.2	71.6	65.5	64.5
62.5°	3186.7	1911.2	303.8	115.6	82.8	74.1	73.2	71.1	62.9	51.7	50.6
65°	2960.7	1552.7	204.6	96.1	71.1	65.0	65.5	61.9	51.1	38.3	37.3
67.5°	2630.4	1135.4	130.9	78.7	59.3	54.2	54.7	52.7	43.5	32.7	31.2
70°	2209.4	751.8	85.4	59.9	47.6	41.9	45.0	45.5	36.8	26.5	25.5
72.5°	1619.7	443.9	59.9	44.5	34.7	29.1	36.8	37.8	29.6	20.0	19.0
75°	923.1	210.7	45.0	32.2	21.5	20.5	28.6	28.6	20.5	13.3	12.3
77.5°	387.7	87.9	31.7	21.0	12.3	11.8	19.5	17.9	10.2	6.1	6.1
80°	112.0	39.4	16.9	10.2	5.1	4.6	7.7	5.6	2.6	1.0	1.0
82.5°	44.0	17.4	6.7	4.1	2.0	2.0	1.0	0.0	0.0	0.0	0.0
85°	26.0	7.2	3.1	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.7	1.5	1.0	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)