

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: P882058

Luminaire Tested: **NAV-SB1D-730-U-T3-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882058
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1D-730-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7863 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

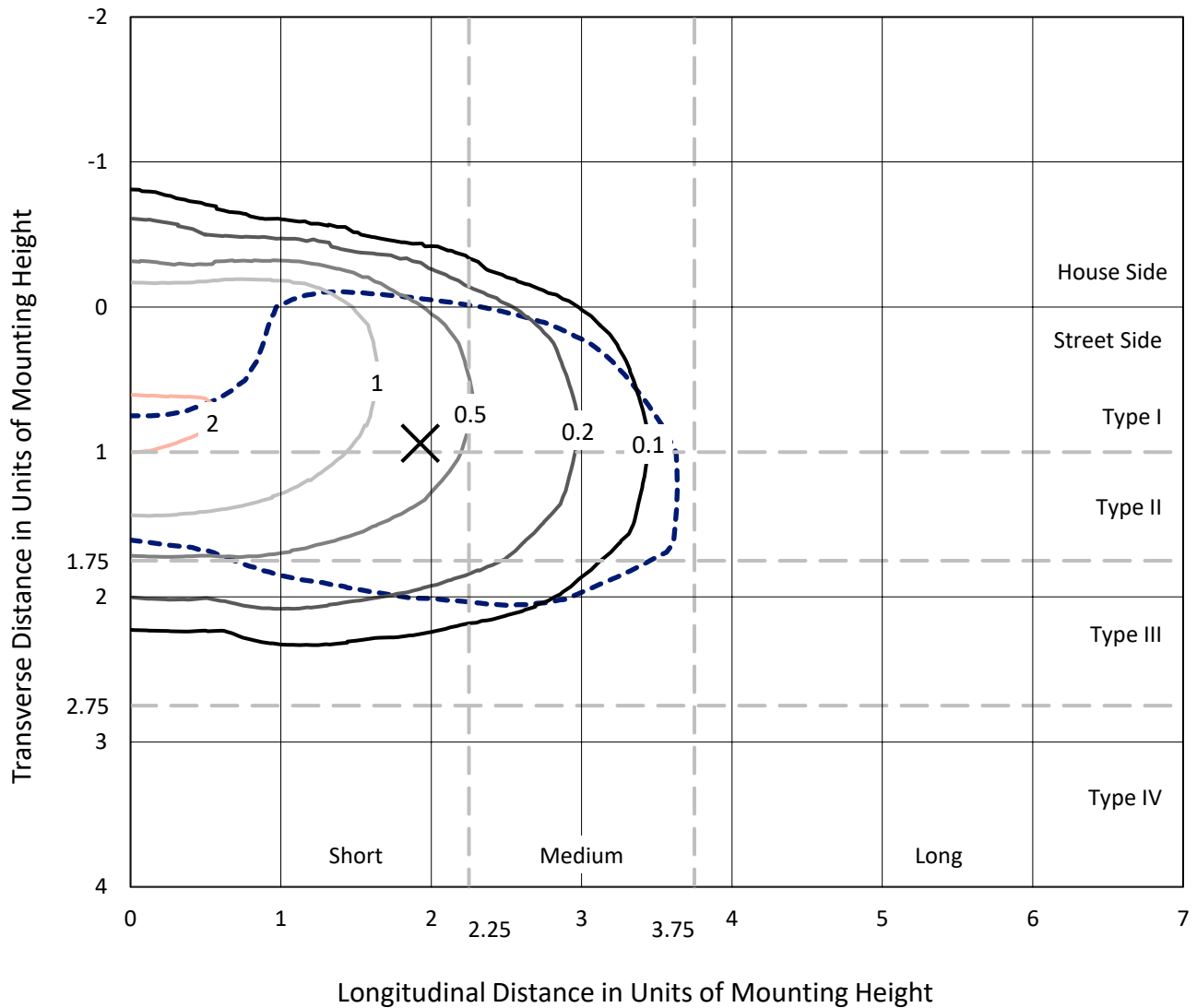
Input Watts (W): 79.6
Input Voltage (V): 120.0
Input Current (Ain): 0.638
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.673
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

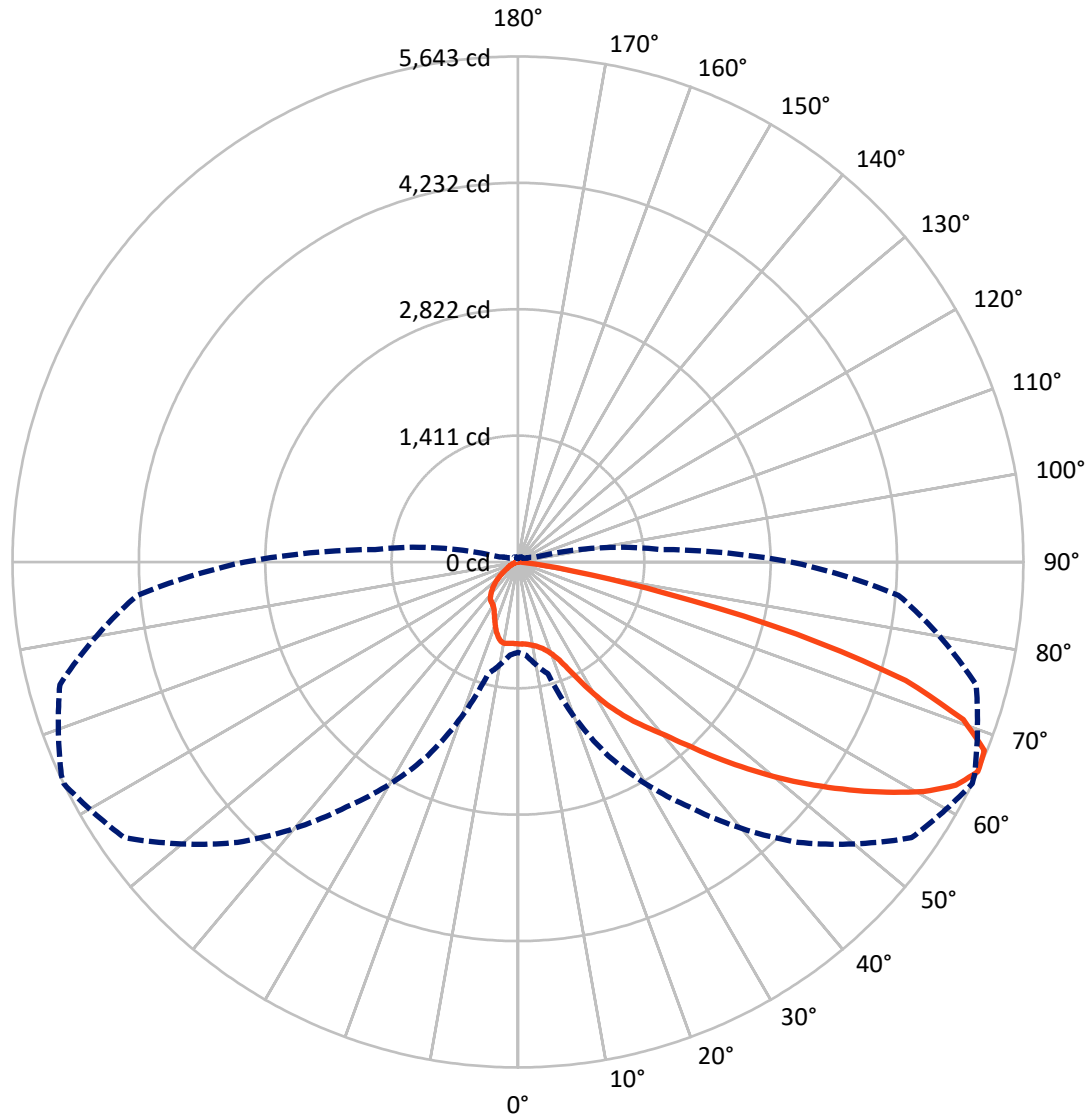
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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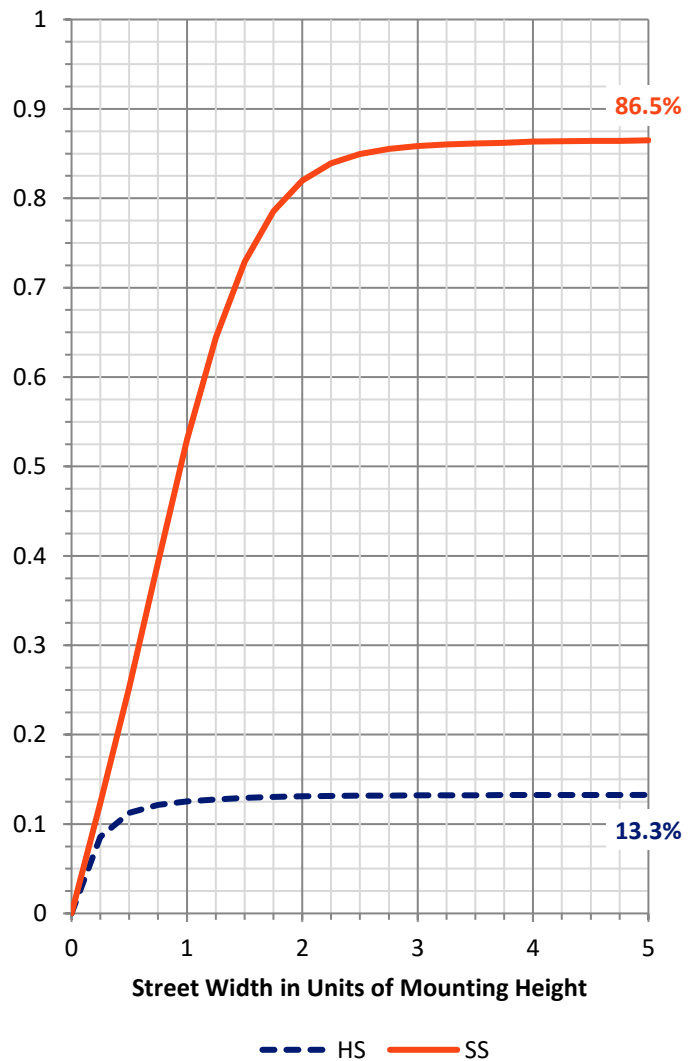
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1051.5	0.0	1051.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	6811.5	0.0	6811.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	7863.0	0.0	7863.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.4	1.1
10°-20°	228.9	2.9
20°-30°	433.7	5.5
30°-40°	877.5	11.2
40°-50°	1494.9	19.0
50°-60°	2032.9	25.9
60°-70°	1909.0	24.3
70°-80°	764.8	9.7
80°-90°	37.1	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°	7863.0	100.0
0°-180°	7863.0	100.0

Coefficient of Utilization



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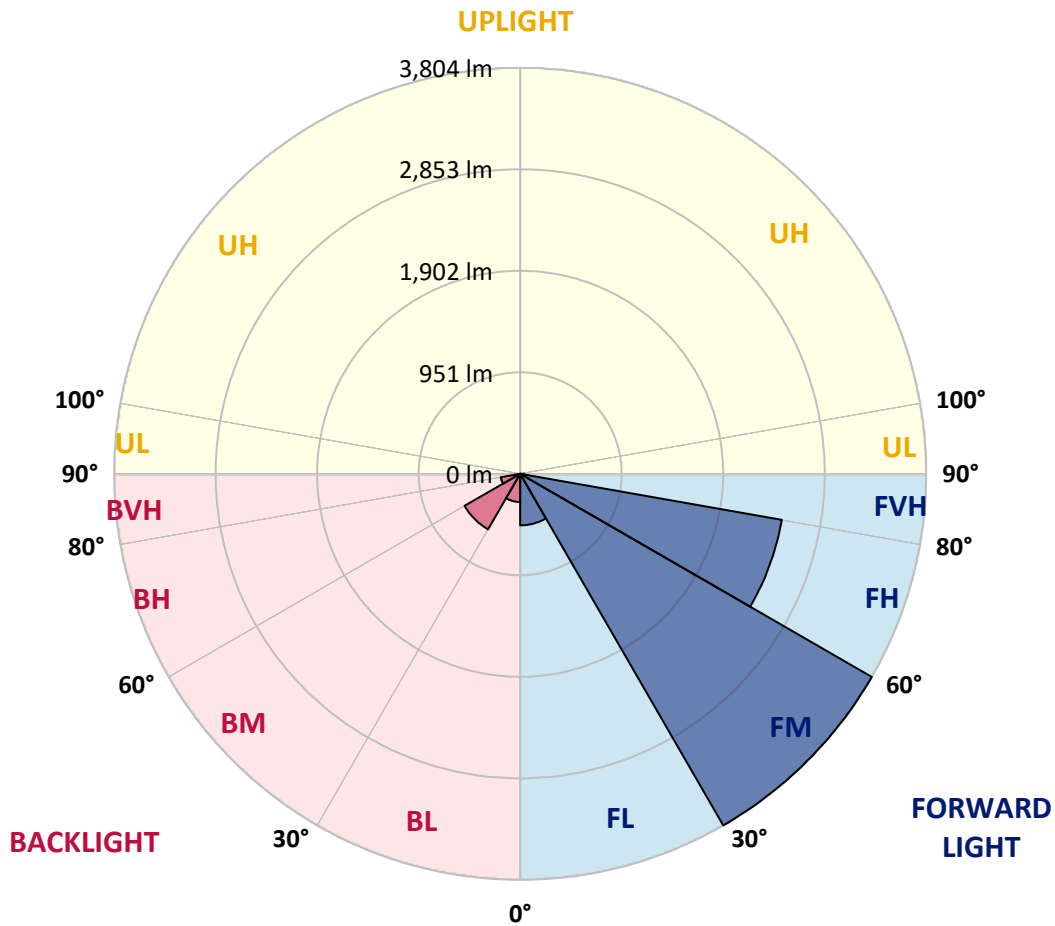
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	482.9	6.1			
FM (30°-60°)	3804.1	48.4			
FH (60°-80°)	2489.2	31.7			G2/5000
FVH (80°-90°)	35.2	0.4			G1/100
BL (0°-30°)	264.0	3.4	B1/500		
BM (30°-60°)	601.1	7.6	B1/1000		
BH (60°-80°)	184.6	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°	914.5	914.5	914.5	914.5	914.5	914.5	914.5	914.5	914.5	914.5	914.5
2.5°	911.4	917.7	916.1	914.5	914.0	915.1	915.6	915.1	915.1	915.1	915.6
5°	894.0	899.3	899.3	903.0	908.2	914.5	919.3	920.3	921.4	923.0	922.5
7.5°	860.8	865.0	868.2	880.3	893.5	910.3	924.6	931.9	933.0	938.8	940.9
10°	838.1	843.4	848.7	861.3	880.3	905.6	929.8	947.8	950.4	964.1	970.4
12.5°	837.1	842.3	849.2	862.9	885.0	911.9	941.4	967.3	972.0	992.0	1005.2
15°	848.1	854.5	860.8	877.7	901.4	934.1	965.7	997.8	1002.6	1031.0	1045.3
17.5°	870.8	879.2	884.0	900.8	926.1	962.5	1004.2	1041.1	1045.3	1078.5	1096.4
20°	915.6	925.6	927.2	940.9	965.7	1004.7	1054.2	1100.1	1105.4	1143.3	1163.3
22.5°	1008.4	1022.6	1010.0	1016.8	1038.9	1078.0	1131.7	1189.7	1197.1	1240.3	1258.2
25°	1171.8	1191.8	1159.1	1147.5	1157.0	1197.6	1265.1	1338.4	1346.8	1381.6	1390.5
27.5°	1492.8	1467.0	1417.4	1368.9	1340.5	1363.7	1439.6	1530.2	1540.8	1574.5	1564.0
30°	1845.4	1822.8	1755.8	1648.3	1580.8	1577.1	1647.2	1748.4	1760.6	1792.7	1760.6
32.5°	2198.6	2177.0	2104.3	1971.9	1854.9	1796.9	1845.4	1957.7	1964.0	1984.6	1937.2
35°	2546.0	2523.8	2451.1	2315.6	2171.7	2039.9	2030.5	2157.0	2159.1	2180.7	2110.1
37.5°	2895.5	2877.0	2799.5	2666.7	2524.9	2343.0	2255.0	2345.7	2348.3	2369.4	2296.1
40°	3144.8	3152.7	3099.4	2996.7	2874.9	2676.2	2507.0	2546.5	2530.7	2566.0	2522.3
42.5°	3358.8	3374.6	3328.2	3276.6	3205.9	3030.9	2819.0	2812.2	2786.9	2805.8	2760.5
45°	3543.8	3557.0	3515.3	3503.2	3501.6	3378.8	3160.1	3119.0	3083.6	3079.9	3025.7
47.5°	3611.8	3637.1	3655.0	3695.6	3774.7	3723.0	3512.7	3448.9	3409.4	3380.4	3294.5
50°	3637.6	3664.5	3725.7	3843.7	4030.9	4053.0	3863.8	3792.1	3743.6	3690.9	3564.4
52.5°	3602.8	3650.8	3733.0	3931.8	4203.2	4317.6	4200.6	4137.9	4082.5	3996.6	3808.9
55°	3397.8	3445.8	3613.9	3930.7	4289.2	4503.2	4519.0	4491.0	4428.8	4293.4	4006.6
57.5°	2965.6	3036.7	3302.9	3796.8	4287.6	4662.9	4831.0	4851.1	4781.5	4587.5	4162.1
60°	2366.8	2463.2	2787.9	3500.1	4155.3	4749.3	5104.6	5204.8	5131.0	4877.4	4288.1
62.5°	1651.5	1763.2	2070.5	3035.1	3852.7	4687.1	5304.4	5489.4	5433.5	5136.8	4336.6
65°	1007.3	1043.2	1290.9	2388.4	3338.2	4426.7	5366.1	5643.3	5624.9	5295.4	4264.9
67.5°	671.0	701.1	772.2	1637.8	2591.3	3906.5	5218.5	5616.4	5621.7	5269.6	4002.4
70°	404.3	430.1	476.5	952.5	1679.4	3092.1	4761.5	5273.8	5304.4	4924.3	3504.8
72.5°	166.6	184.0	226.1	431.7	869.7	1962.5	3791.6	4527.9	4599.1	4140.5	2689.9
75°	94.4	103.3	132.8	216.6	377.4	914.5	2296.7	3214.4	3319.3	2853.8	1618.3
77.5°	62.7	66.9	85.9	140.2	212.4	312.1	981.5	1674.7	1875.0	1558.7	700.5
80°	42.2	45.9	59.0	93.8	138.1	133.9	312.6	620.4	763.3	535.6	170.8
82.5°	28.5	29.0	42.2	61.7	87.5	64.8	92.2	192.9	242.5	155.0	64.8
85°	16.3	15.8	31.1	35.8	39.0	26.9	27.9	58.0	75.9	65.4	36.9
87.5°	2.1	3.2	12.1	9.5	5.3	5.8	5.8	10.0	14.8	15.8	7.9
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°	914.5	914.5	914.5	914.5	914.5	914.5	914.5	914.5	914.5	914.5	914.5
2.5°	915.6	915.1	913.5	911.9	908.2	906.1	907.2	906.1	905.6	906.1	908.2
5°	922.5	920.9	916.7	911.4	904.0	895.0	889.2	880.8	872.9	868.2	869.2
7.5°	940.9	939.3	933.5	918.8	895.0	857.6	823.4	793.3	770.6	757.5	758.0
10°	970.4	967.8	958.8	926.1	863.9	782.2	714.2	657.8	620.9	603.5	602.0
12.5°	1005.2	1002.1	986.2	919.3	804.9	677.3	583.5	520.8	486.5	471.2	469.7
15°	1046.3	1042.1	1011.0	886.6	719.0	561.4	475.5	428.5	406.4	392.7	393.2
17.5°	1097.5	1090.1	1029.5	837.6	625.7	472.8	409.0	373.7	354.2	341.0	340.0
20°	1163.9	1151.8	1044.2	779.1	539.8	416.9	364.2	334.7	320.0	308.4	306.3
22.5°	1256.6	1239.3	1062.1	715.8	479.1	378.5	331.0	309.4	297.3	284.1	282.0
25°	1371.6	1351.0	1084.3	657.3	437.5	345.3	306.8	288.9	274.6	259.3	257.8
27.5°	1532.3	1495.4	1110.6	609.3	401.7	316.8	284.6	264.6	248.3	235.6	233.0
30°	1711.5	1650.9	1133.8	580.4	369.0	290.4	255.7	235.6	220.3	211.4	209.8
32.5°	1881.3	1799.1	1149.1	567.7	339.5	260.4	224.0	202.4	190.8	188.2	189.8
35°	2041.5	1932.9	1147.5	555.6	313.1	230.4	192.9	170.8	161.8	163.4	163.4
37.5°	2226.0	2075.8	1136.5	536.6	291.5	202.9	166.0	146.5	138.6	139.2	141.3
40°	2440.6	2240.8	1129.6	500.8	267.8	177.6	143.9	128.1	122.3	120.2	119.7
42.5°	2669.3	2400.5	1130.7	460.2	238.3	155.0	128.6	115.4	110.2	108.6	108.1
45°	2899.1	2552.8	1132.2	418.0	207.2	137.6	117.5	106.5	103.3	101.2	101.2
47.5°	3115.3	2682.5	1102.7	372.7	176.6	124.4	108.6	101.2	98.6	95.9	95.9
50°	3316.6	2768.9	1031.6	320.0	152.3	113.9	101.7	96.5	93.8	91.2	91.2
52.5°	3473.2	2782.7	914.0	265.7	135.5	106.0	97.5	92.8	89.6	87.0	86.4
55°	3542.8	2696.7	746.9	215.1	122.3	99.1	93.3	88.6	84.9	82.2	81.7
57.5°	3524.8	2515.9	582.5	172.9	109.6	92.2	88.0	84.9	80.6	76.4	75.9
60°	3436.8	2274.0	439.1	143.9	98.0	84.9	82.2	79.6	73.8	67.5	66.4
62.5°	3284.5	1969.8	313.1	119.1	85.4	76.4	75.4	73.3	64.8	53.2	52.2
65°	3051.5	1600.3	210.8	99.1	73.3	66.9	67.5	63.8	52.7	39.5	38.5
67.5°	2711.0	1170.2	134.9	81.2	61.1	55.9	56.4	54.3	44.8	33.7	32.2
70°	2277.1	774.9	88.0	61.7	49.0	43.2	46.4	46.9	38.0	27.4	26.4
72.5°	1669.4	457.5	61.7	45.9	35.8	30.0	38.0	39.0	30.6	20.6	19.5
75°	951.4	217.2	46.4	33.2	22.1	21.1	29.5	29.5	21.1	13.7	12.7
77.5°	399.6	90.7	32.7	21.6	12.7	12.1	20.0	18.4	10.5	6.3	6.3
80°	115.4	40.6	17.4	10.5	5.3	4.7	7.9	5.8	2.6	1.1	1.1
82.5°	45.3	17.9	6.9	4.2	2.1	2.1	1.1	0.0	0.0	0.0	0.0
85°	26.9	7.4	3.2	1.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.9	1.6	1.1	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)