

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: P881958

Luminaire Tested: **NAV-SB1C-835-U-T3-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881958
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-SB1C-835-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3500K, 615mA 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: 4960 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

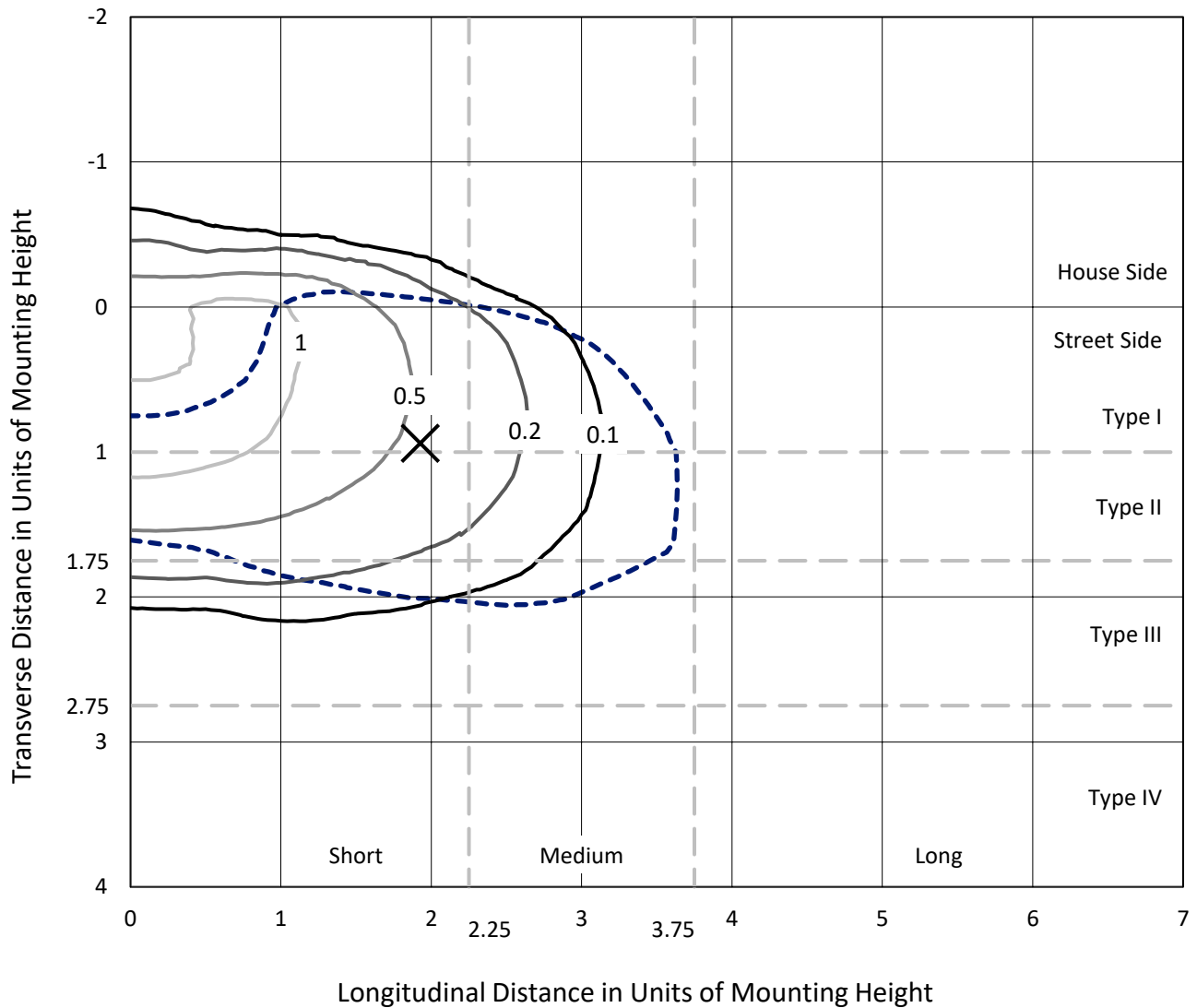
Input Watts (W): 54.4
Input Voltage (V): 120.0
Input Current (Ain): 0.437
Voltage Rise (V): NR
Power Factor: 0.993
Total Harmonic Distortion (THDi): 9.314
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

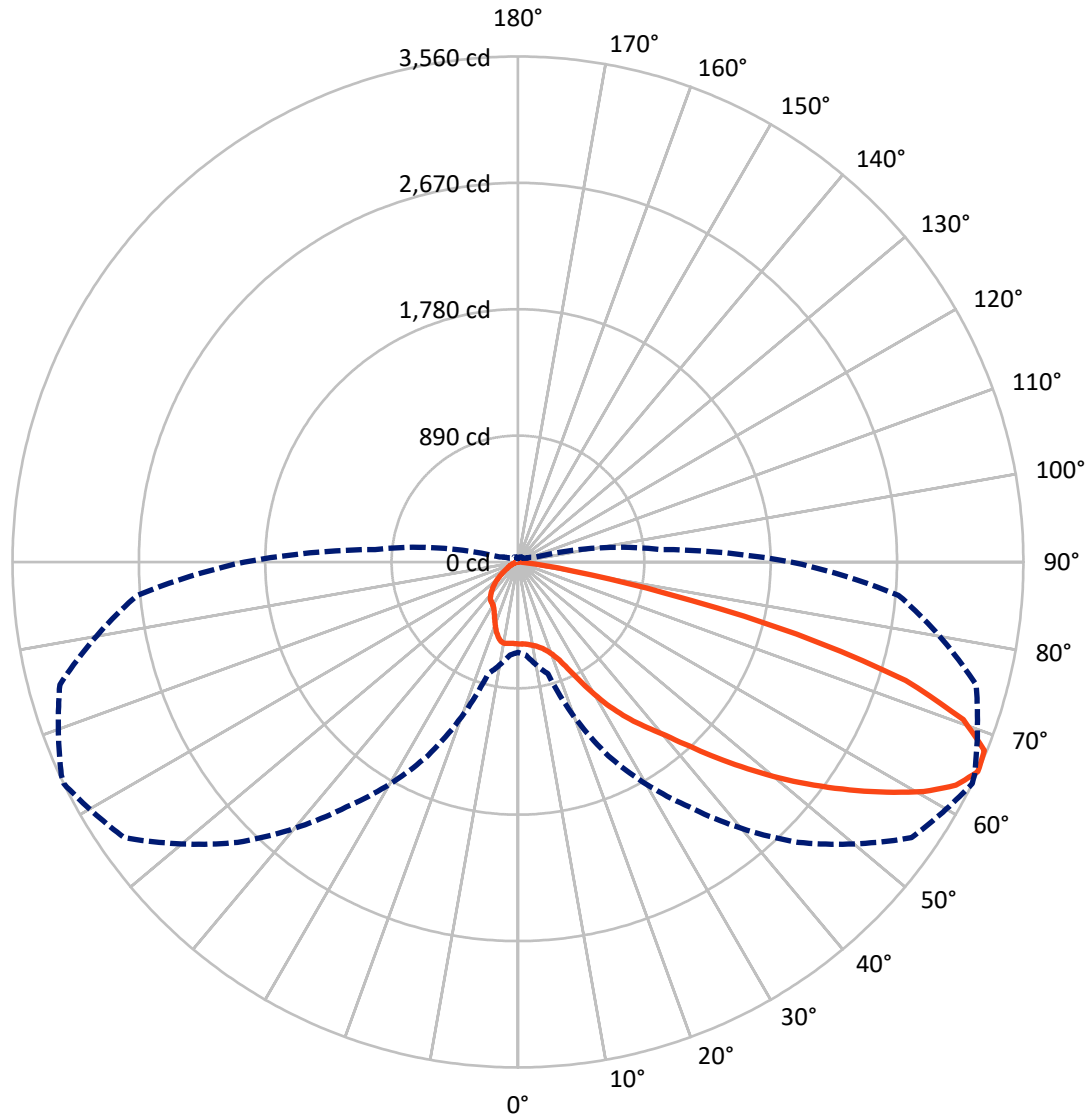
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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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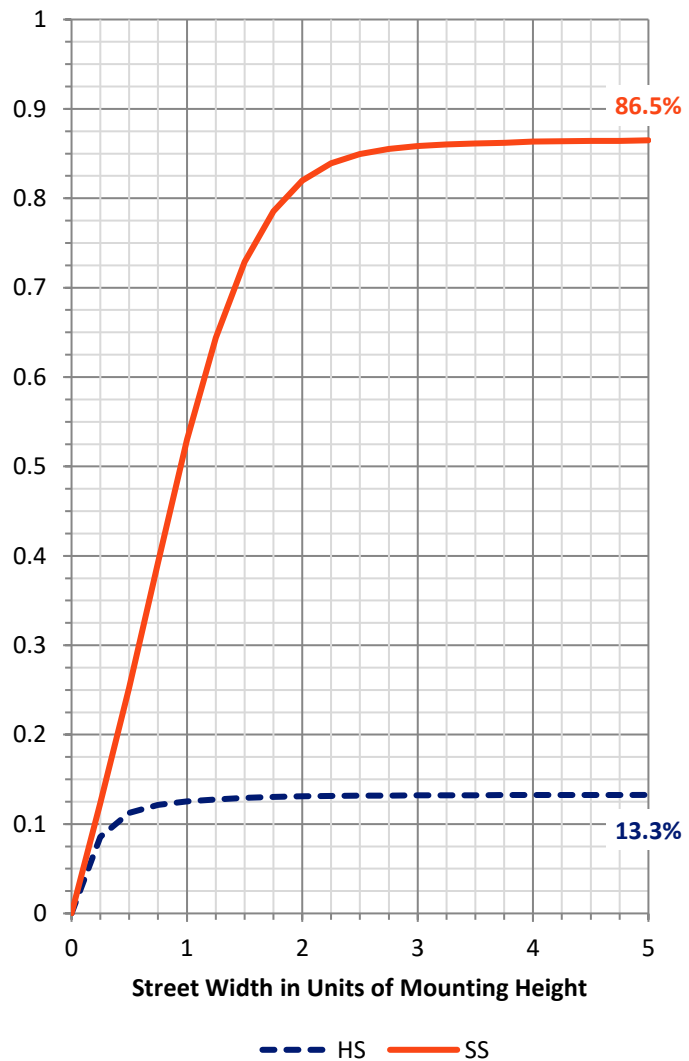
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	663.3	0.0	663.3
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	4296.7	0.0	4296.7
	% Fixture	86.6	0.0	86.6
Total	Lumens	4960.0	0.0	4960.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.2	1.1
10°-20°	144.4	2.9
20°-30°	273.6	5.5
30°-40°	553.5	11.2
40°-50°	943.0	19.0
50°-60°	1282.4	25.9
60°-70°	1204.2	24.3
70°-80°	482.4	9.7
80°-90°	23.4	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°	4960.0	100.0
0°-180°	4960.0	100.0

Coefficient of Utilization



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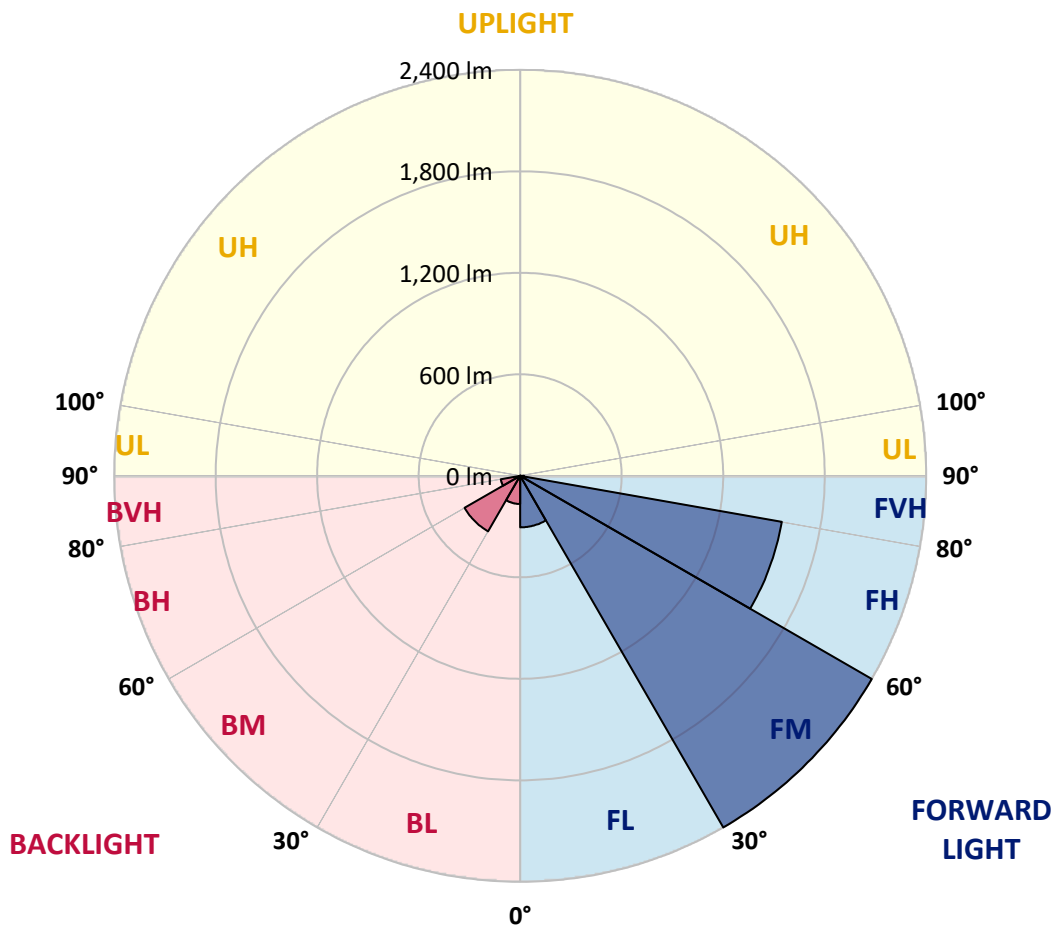
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	304.6	6.1			
FM (30°-60°)	2399.6	48.4			
FH (60°-80°)	1570.2	31.7			G1/1800
FVH (80°-90°)	22.2	0.4			G1/100
BL (0°-30°)	166.5	3.4	B1/500		
BM (30°-60°)	379.2	7.6	B1/1000		
BH (60°-80°)	116.4	2.3	B1/500		G1/500
BVH (80°-90°)	1.1	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-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9
2.5°	574.9	578.9	577.9	576.9	576.6	577.2	577.6	577.2	577.2	577.2	577.6
5°	563.9	567.3	567.3	569.6	572.9	576.9	579.9	580.6	581.2	582.2	581.9
7.5°	543.0	545.6	547.6	555.3	563.6	574.2	583.2	587.9	588.5	592.2	593.5
10°	528.7	532.0	535.3	543.3	555.3	571.2	586.5	597.8	599.5	608.2	612.1
12.5°	528.0	531.3	535.7	544.3	558.3	575.2	593.9	610.2	613.1	625.8	634.1
15°	535.0	539.0	543.0	553.6	568.6	589.2	609.2	629.4	632.4	650.4	659.4
17.5°	549.3	554.6	557.6	568.3	584.2	607.2	633.4	656.7	659.4	680.3	691.6
20°	577.6	583.9	584.9	593.5	609.2	633.8	665.0	693.9	697.3	721.2	733.8
22.5°	636.1	645.1	637.1	641.4	655.4	680.0	713.9	750.5	755.1	782.4	793.7
25°	739.2	751.8	731.2	723.9	729.9	755.5	798.0	844.2	849.6	871.5	877.2
27.5°	941.7	925.4	894.1	863.5	845.6	860.2	908.1	965.3	971.9	993.2	986.5
30°	1164.1	1149.8	1107.6	1039.7	997.2	994.9	1039.1	1102.9	1110.6	1130.9	1110.6
32.5°	1386.9	1373.3	1327.4	1243.9	1170.1	1133.5	1164.1	1234.9	1238.9	1251.9	1222.0
35°	1606.0	1592.0	1546.2	1460.7	1369.9	1286.8	1280.8	1360.6	1361.9	1375.6	1331.0
37.5°	1826.5	1814.8	1765.9	1682.2	1592.7	1478.0	1422.5	1479.7	1481.3	1494.6	1448.4
40°	1983.7	1988.7	1955.1	1890.3	1813.5	1688.1	1581.4	1606.3	1596.4	1618.6	1591.0
42.5°	2118.7	2128.7	2099.4	2066.9	2022.3	1911.9	1778.2	1773.9	1758.0	1769.9	1741.3
45°	2235.4	2243.8	2217.5	2209.8	2208.8	2131.4	1993.4	1967.4	1945.2	1942.8	1908.6
47.5°	2278.3	2294.3	2305.6	2331.2	2381.1	2348.5	2215.8	2175.6	2150.7	2132.4	2078.2
50°	2294.6	2311.6	2350.2	2424.6	2542.7	2556.6	2437.3	2392.1	2361.5	2328.2	2248.4
52.5°	2272.7	2302.9	2354.8	2480.2	2651.4	2723.6	2649.7	2610.2	2575.3	2521.1	2402.7
55°	2143.3	2173.6	2279.7	2479.5	2705.6	2840.6	2850.6	2833.0	2793.7	2708.3	2527.4
57.5°	1870.7	1915.6	2083.5	2395.0	2704.6	2941.4	3047.4	3060.1	3016.2	2893.8	2625.5
60°	1493.0	1553.8	1758.6	2207.8	2621.2	2995.9	3220.0	3283.2	3236.6	3076.7	2704.9
62.5°	1041.7	1112.2	1306.1	1914.6	2430.3	2956.7	3346.0	3462.7	3427.5	3240.3	2735.5
65°	635.4	658.0	814.3	1506.6	2105.8	2792.4	3384.9	3559.8	3548.2	3340.4	2690.3
67.5°	423.3	442.2	487.1	1033.1	1634.6	2464.2	3291.8	3542.9	3546.2	3324.1	2524.7
70°	255.0	271.3	300.6	600.8	1059.4	1950.5	3003.5	3326.7	3346.0	3106.3	2210.8
72.5°	105.1	116.0	142.6	272.3	548.6	1237.9	2391.7	2856.2	2901.1	2611.8	1696.8
75°	59.5	65.2	83.8	136.7	238.1	576.9	1448.7	2027.6	2093.8	1800.2	1020.8
77.5°	39.6	42.2	54.2	88.4	134.0	196.8	619.1	1056.4	1182.7	983.2	441.9
80°	26.6	28.9	37.2	59.2	87.1	84.5	197.2	391.4	481.5	337.8	107.7
82.5°	18.0	18.3	26.6	38.9	55.2	40.9	58.2	121.7	153.0	97.8	40.9
85°	10.3	10.0	19.6	22.6	24.6	17.0	17.6	36.6	47.9	41.2	23.3
87.5°	1.3	2.0	7.6	6.0	3.3	3.7	3.7	6.3	9.3	10.0	5.0
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°	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9
2.5°	577.6	577.2	576.2	575.2	572.9	571.6	572.2	571.6	571.2	571.6	572.9
5°	581.9	580.9	578.2	574.9	570.2	564.6	560.9	555.6	550.6	547.6	548.3
7.5°	593.5	592.5	588.9	579.6	564.6	541.0	519.4	500.4	486.1	477.8	478.1
10°	612.1	610.5	604.8	584.2	545.0	493.4	450.5	415.0	391.7	380.7	379.7
12.5°	634.1	632.1	622.1	579.9	507.7	427.3	368.1	328.5	306.9	297.3	296.3
15°	660.0	657.4	637.7	559.3	453.5	354.1	299.9	270.3	256.4	247.7	248.1
17.5°	692.3	687.6	649.4	528.4	394.7	298.3	258.0	235.7	223.4	215.1	214.5
20°	734.2	726.5	658.7	491.4	340.5	263.0	229.8	211.1	201.8	194.5	193.2
22.5°	792.7	781.7	670.0	451.5	302.2	238.7	208.8	195.2	187.5	179.2	177.9
25°	865.2	852.2	684.0	414.6	276.0	217.8	193.5	182.2	173.2	163.6	162.6
27.5°	966.6	943.3	700.6	384.4	253.4	199.8	179.6	166.9	156.6	148.6	147.0
30°	1079.6	1041.4	715.2	366.1	232.8	183.2	161.3	148.6	139.0	133.3	132.3
32.5°	1186.7	1134.8	724.9	358.1	214.1	164.3	141.3	127.7	120.4	118.7	119.7
35°	1287.8	1219.3	723.9	350.5	197.5	145.3	121.7	107.7	102.1	103.1	103.1
37.5°	1404.2	1309.4	716.9	338.5	183.9	128.0	104.7	92.4	87.4	87.8	89.1
40°	1539.5	1413.5	712.6	315.9	168.9	112.1	90.8	80.8	77.1	75.8	75.5
42.5°	1683.8	1514.2	713.2	290.3	150.3	97.8	81.1	72.8	69.5	68.5	68.2
45°	1828.8	1610.3	714.2	263.7	130.7	86.8	74.1	67.2	65.2	63.8	63.8
47.5°	1965.1	1692.1	695.6	235.1	111.4	78.5	68.5	63.8	62.2	60.5	60.5
50°	2092.1	1746.7	650.7	201.8	96.1	71.8	64.2	60.8	59.2	57.5	57.5
52.5°	2190.9	1755.3	576.6	167.6	85.5	66.8	61.5	58.5	56.5	54.9	54.5
55°	2234.8	1701.1	471.2	135.7	77.1	62.5	58.9	55.9	53.5	51.9	51.5
57.5°	2223.5	1587.1	367.4	109.1	69.2	58.2	55.5	53.5	50.9	48.2	47.9
60°	2167.9	1434.4	277.0	90.8	61.8	53.5	51.9	50.2	46.6	42.6	41.9
62.5°	2071.9	1242.6	197.5	75.1	53.9	48.2	47.5	46.2	40.9	33.6	32.9
65°	1924.9	1009.5	133.0	62.5	46.2	42.2	42.6	40.2	33.3	24.9	24.3
67.5°	1710.1	738.2	85.1	51.2	38.6	35.2	35.6	34.2	28.3	21.3	20.3
70°	1436.4	488.8	55.5	38.9	30.9	27.3	29.3	29.6	23.9	17.3	16.6
72.5°	1053.0	288.6	38.9	28.9	22.6	19.0	23.9	24.6	19.3	13.0	12.3
75°	600.2	137.0	29.3	20.9	14.0	13.3	18.6	18.6	13.3	8.6	8.0
77.5°	252.0	57.2	20.6	13.6	8.0	7.6	12.6	11.6	6.7	4.0	4.0
80°	72.8	25.6	11.0	6.7	3.3	3.0	5.0	3.7	1.7	0.7	0.7
82.5°	28.6	11.3	4.3	2.7	1.3	1.3	0.7	0.0	0.0	0.0	0.0
85°	17.0	4.7	2.0	1.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	1.0	0.7	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)