

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: P964732

Luminaire Tested: **NAV-SB3C-830-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964732
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-SB3C-830-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15669.2 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 149.1
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



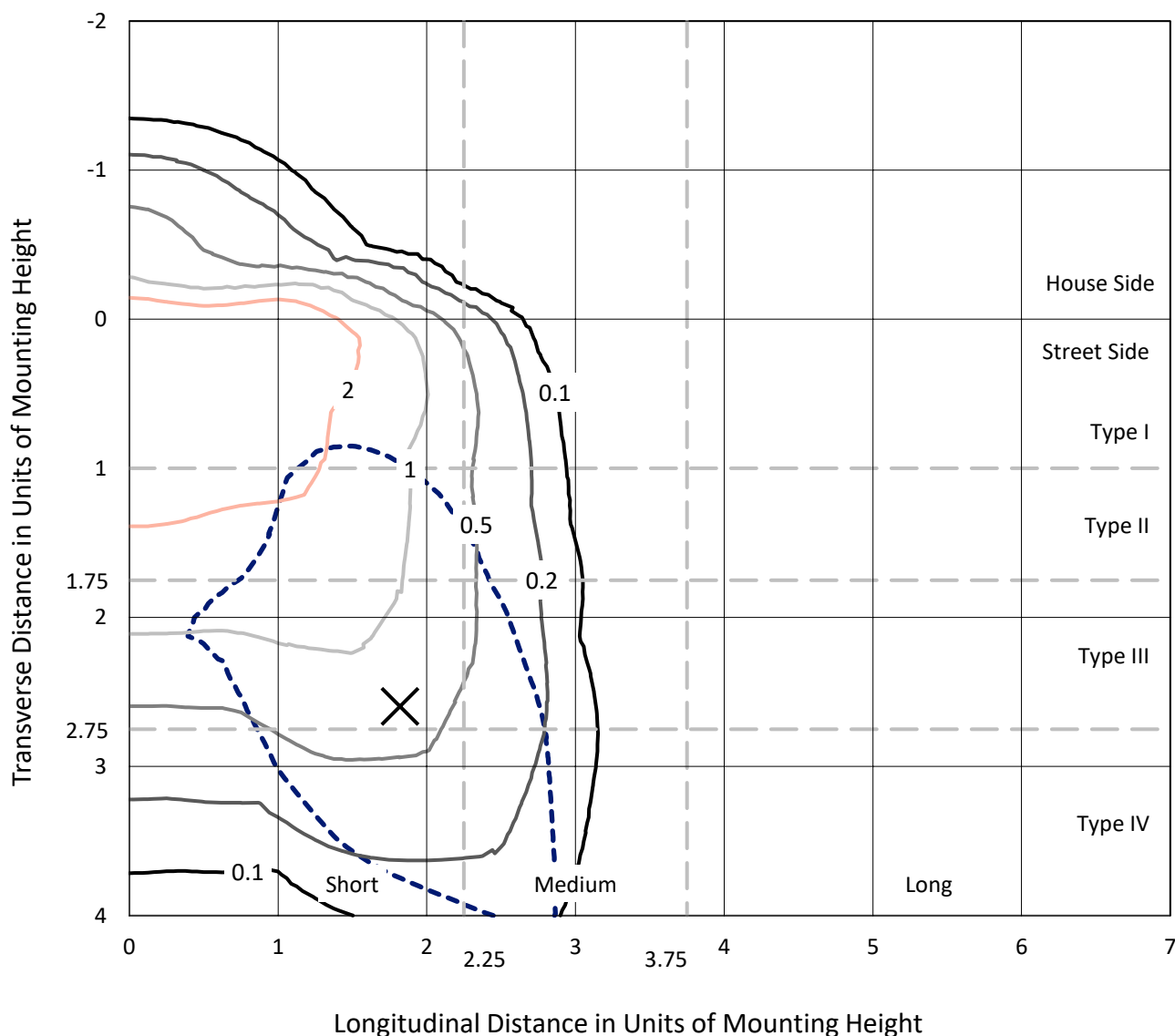
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

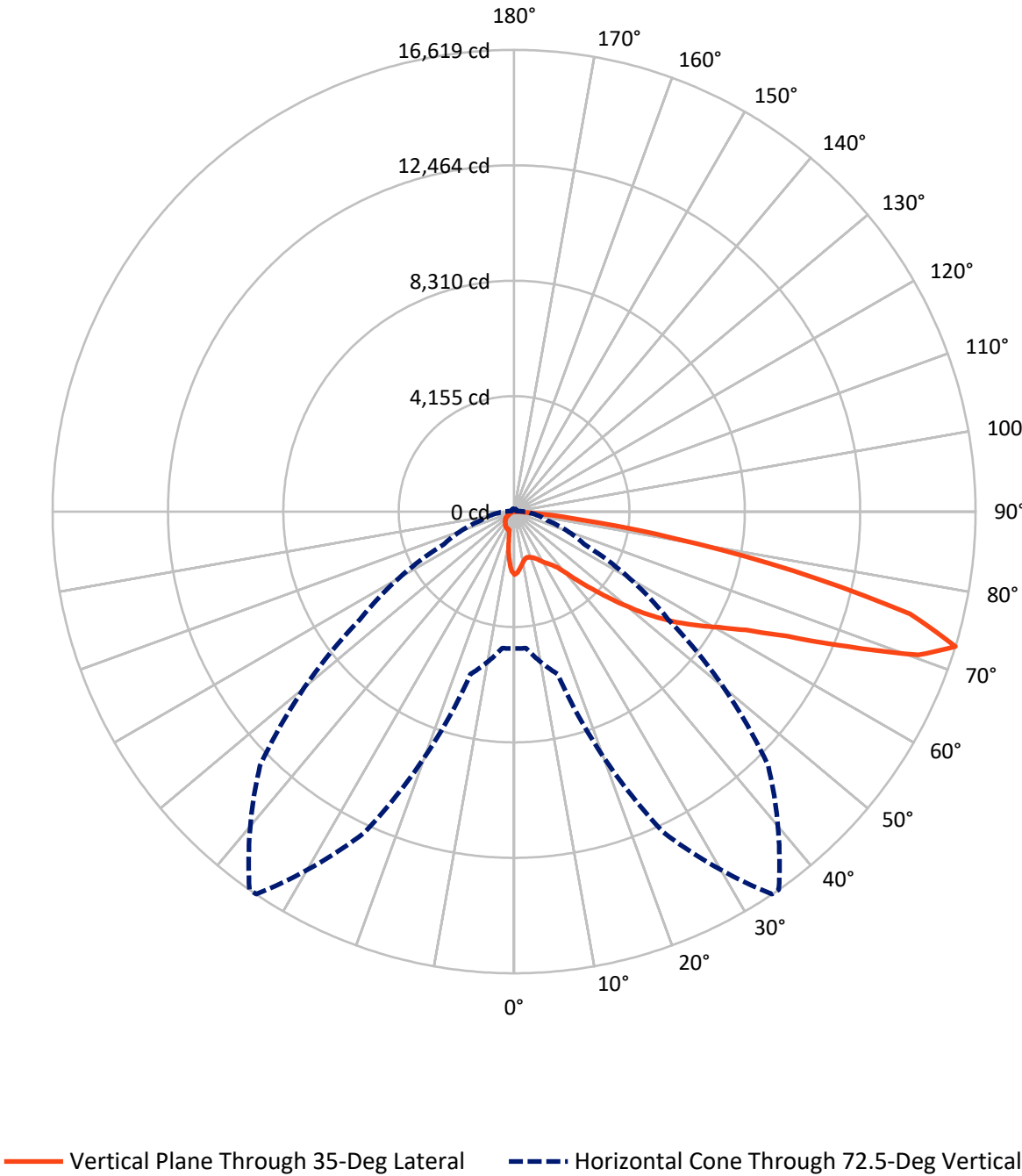


Based on 25 foot mounting height. Maximum calculated value = 3.6 fc

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	1763.5	0.0	1763.5
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	13905.7	0.0	13905.7
	% Fixture	88.7	0.0	88.7
Total	Lumens	15669.2	0.0	15669.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.6	1.2
10°-20°	436.6	2.8
20°-30°	709.2	4.5
30°-40°	1183.3	7.6
40°-50°	2238.8	14.3
50°-60°	3557.4	22.7
60°-70°	4400.8	28.1
70°-80°	2735.5	17.5
80°-90°	221.1	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°	15669.2	100.0
0°-180°	15669.2	100.0

Coefficient of Utilization



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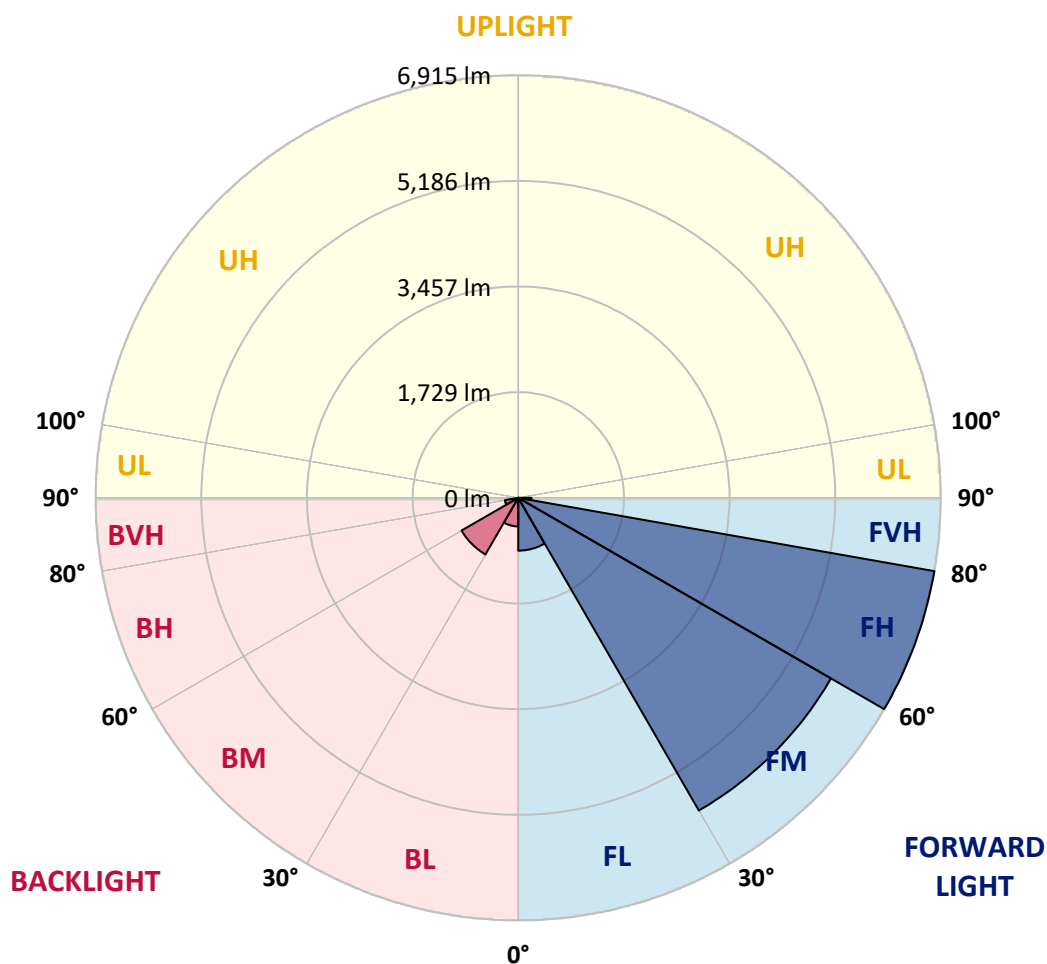
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	863.8	5.5			
FM	(30°-60°)	5908.8	37.7			
FH	(60°-80°)	6915.0	44.1			G3/7500
FVH	(80°-90°)	218.1	1.4			G2/225
BL	(0°-30°)	468.6	3.0	B1/500		
BM	(30°-60°)	1070.6	6.8	B2/2500		
BH	(60°-80°)	221.3	1.4	B1/500		G1/500
BVH	(80°-90°)	3.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2271.0	2271.0	2271.0	2271.0	2271.0	2271.0	2271.0	2271.0	2271.0	2271.0	2271.0
2.5°	2169.9	2188.4	2191.8	2197.5	2197.5	2204.4	2215.8	2231.9	2258.4	2272.1	2281.3
5°	2000.1	2013.8	2031.0	2044.8	2071.2	2074.7	2119.4	2163.1	2223.9	2269.9	2301.9
7.5°	1829.0	1845.0	1868.0	1901.3	1935.7	1946.1	2013.8	2087.3	2183.8	2269.9	2323.8
10°	1708.4	1709.6	1730.2	1763.5	1818.7	1831.3	1913.9	2018.4	2139.0	2256.0	2344.5
12.5°	1640.7	1648.7	1657.9	1683.2	1735.9	1744.0	1832.4	1955.3	2094.2	2248.0	2368.6
15°	1640.7	1646.5	1652.2	1664.8	1707.2	1714.1	1792.2	1915.1	2071.2	2251.5	2407.6
17.5°	1657.9	1667.1	1662.4	1677.4	1722.2	1726.8	1795.7	1903.6	2070.1	2273.2	2467.3
20°	1699.2	1706.1	1696.9	1706.1	1750.9	1760.0	1831.3	1925.4	2089.6	2311.2	2541.9
22.5°	1764.6	1768.1	1746.3	1753.2	1799.1	1810.6	1893.3	1987.4	2136.6	2372.1	2641.8
25°	1847.4	1854.2	1820.9	1829.0	1872.6	1886.4	1981.6	2080.4	2211.3	2455.8	2769.2
27.5°	1942.6	1946.1	1917.4	1916.2	1972.5	1992.0	2088.4	2195.2	2311.2	2561.5	2930.0
30°	2051.7	2062.0	2034.5	2029.9	2101.0	2117.1	2212.5	2336.4	2458.2	2719.9	3158.5
32.5°	2137.8	2145.8	2129.7	2141.2	2213.6	2226.2	2362.8	2536.2	2688.9	2944.9	3469.6
35°	2261.8	2266.4	2229.7	2250.3	2333.0	2365.1	2568.3	2816.4	2979.4	3227.4	3876.0
37.5°	2710.7	2710.7	2554.6	2452.4	2531.6	2560.3	2849.6	3168.8	3337.6	3606.3	4388.1
40°	3331.9	3321.5	3093.0	2884.0	2873.8	2930.0	3250.4	3613.1	3800.3	4060.9	4964.5
42.5°	3994.3	3978.2	3667.1	3460.4	3426.0	3445.5	3713.1	4160.8	4351.4	4615.5	5584.5
45°	4582.2	4577.5	4292.8	4015.0	3953.0	4015.0	4290.5	4801.4	4938.0	5215.9	6203.3
47.5°	5074.7	5074.7	4866.9	4685.5	4653.3	4690.1	5072.4	5512.1	5499.5	5855.4	6806.1
50°	5641.9	5637.3	5439.8	5361.8	5395.0	5446.7	5972.6	6260.7	6080.5	6483.4	7344.5
52.5°	6039.1	6066.7	5998.9	5986.3	6156.3	6245.8	6886.5	6993.3	6600.6	7079.4	7747.6
55°	6353.7	6385.9	6464.0	6552.3	6879.6	6996.6	7771.7	7687.8	7035.7	7596.0	7979.4
57.5°	6799.2	6753.3	6873.9	7048.3	7577.6	7718.9	8629.3	8343.4	7385.8	8015.1	8004.7
60°	7339.9	7346.9	7367.5	7588.0	8274.5	8455.9	9474.3	8963.4	7610.9	8272.3	7724.6
62.5°	7989.8	8000.1	8042.6	8381.3	9210.2	9381.3	10374.4	9470.9	7714.3	8199.9	7001.3
65°	7945.0	7988.6	8462.8	9621.3	10632.7	10801.6	11425.0	9826.8	7558.1	7538.6	5700.4
67.5°	7237.7	7309.0	8102.3	11102.4	12777.4	12965.7	12694.8	9896.8	6884.1	5862.3	3718.8
70°	6310.1	6335.3	7289.4	12434.2	15260.8	15451.5	13831.5	9126.4	5223.9	3269.9	1665.9
72.5°	4927.8	4933.5	6052.9	12743.0	16608.8	16619.0	12939.4	6775.0	2809.4	1256.0	578.6
75°	3520.2	3485.7	4054.0	10334.3	14612.2	14729.2	9700.5	3178.0	1073.5	593.6	288.2
77.5°	1887.5	1925.4	2294.0	6128.7	10094.3	10294.1	5292.9	916.2	546.5	404.2	190.5
80°	583.2	615.4	940.3	2806.0	5717.7	5838.2	1962.2	407.5	381.2	288.2	125.2
82.5°	183.7	190.5	438.6	1179.2	2373.2	2428.3	568.4	230.7	260.7	190.5	73.5
85°	52.8	53.9	195.2	439.7	586.7	598.2	159.6	89.6	149.2	118.3	37.9
87.5°	5.7	18.3	73.5	73.5	51.7	50.5	17.2	19.5	42.4	15.0	6.9
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°	2271.0	2271.0	2271.0	2271.0	2271.0	2271.0	2271.0	2271.0	2271.0	2271.0	2271.0
2.5°	2275.6	2276.7	2261.8	2236.5	2209.0	2186.0	2157.3	2134.4	2118.3	2113.7	2121.8
5°	2291.7	2283.6	2241.2	2164.2	2072.3	1993.1	1904.8	1834.7	1788.7	1769.3	1776.1
7.5°	2315.8	2292.8	2199.9	2048.3	1872.6	1716.5	1558.0	1435.2	1357.1	1318.0	1323.8
10°	2336.4	2290.5	2130.9	1880.7	1611.9	1375.4	1161.9	1013.8	931.1	892.1	893.3
12.5°	2356.0	2289.3	2041.4	1682.0	1318.0	1028.7	830.0	756.7	733.7	725.6	723.3
15°	2392.7	2292.8	1928.8	1454.7	1025.3	777.3	705.0	703.8	708.4	706.1	705.0
17.5°	2443.2	2296.2	1801.4	1213.6	791.1	685.4	682.0	692.3	699.3	695.8	694.6
20°	2508.7	2310.0	1665.9	974.8	679.7	662.5	670.6	679.7	685.4	679.7	678.6
22.5°	2600.5	2334.1	1517.8	783.0	644.1	648.7	655.6	665.9	671.7	663.6	662.5
25°	2713.0	2372.1	1372.0	680.8	626.9	632.6	643.0	654.5	661.3	653.2	652.1
27.5°	2858.8	2432.8	1237.7	657.8	609.7	613.1	628.0	645.2	654.5	644.1	644.1
30°	3070.1	2532.8	1121.8	668.2	599.3	591.3	611.9	636.0	646.4	637.2	636.0
32.5°	3350.2	2674.0	1050.5	684.3	594.7	566.0	585.6	616.5	633.8	628.0	628.0
35°	3717.7	2888.7	1023.0	702.6	591.3	539.7	553.4	586.7	616.5	622.3	622.3
37.5°	4163.1	3187.2	1031.0	710.7	581.0	517.8	524.7	553.4	592.4	610.8	615.4
40°	4669.4	3535.1	1077.0	702.6	569.5	499.5	500.6	522.4	556.9	584.4	593.6
42.5°	5191.8	3941.5	1161.9	672.8	559.1	483.4	479.9	494.9	517.8	537.3	545.4
45°	5689.0	4359.4	1245.7	631.5	546.5	467.3	459.2	464.9	469.6	477.6	482.3
47.5°	6122.9	4653.3	1221.6	593.6	529.3	449.0	435.1	432.9	419.0	417.9	416.8
50°	6422.6	4717.7	1085.0	555.7	504.0	428.2	406.4	392.7	368.6	357.1	358.2
52.5°	6517.9	4463.9	886.3	517.8	462.7	400.7	369.7	347.9	318.1	307.7	306.6
55°	6391.6	3966.7	708.4	471.9	405.3	364.0	329.5	300.8	276.6	264.0	264.0
57.5°	6082.8	3334.1	560.3	417.9	344.4	322.7	288.2	259.4	238.8	226.2	223.9
60°	5570.7	2647.6	443.2	353.6	294.0	277.9	242.2	223.9	205.5	190.5	187.2
62.5°	4793.4	1889.8	347.9	280.1	245.7	227.3	206.6	192.9	171.1	150.4	147.0
65°	3740.6	1156.2	268.7	205.5	197.5	188.3	175.7	163.1	136.6	115.9	112.5
67.5°	2359.3	547.7	191.8	155.0	156.1	151.6	145.9	135.5	115.9	97.6	95.3
70°	1039.0	265.2	126.3	118.3	115.9	115.9	120.5	117.2	98.7	81.5	78.1
72.5°	353.6	142.4	94.1	89.6	83.8	82.6	101.1	97.6	79.2	63.1	59.7
75°	184.8	95.3	68.9	64.3	50.5	60.9	80.4	75.7	56.3	41.3	37.9
77.5°	120.5	67.8	47.0	41.3	28.7	40.2	59.7	52.8	33.3	20.7	18.3
80°	75.7	44.8	27.6	19.5	13.7	21.8	32.2	23.0	12.6	4.6	3.5
82.5°	40.2	23.0	10.4	6.9	5.7	6.9	8.0	5.7	2.3	0.0	0.0
85°	16.1	8.0	3.5	2.3	1.1	0.0	2.3	1.1	0.0	0.0	0.0
87.5°	5.7	1.1	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)