

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: P883240

Luminaire Tested: **NAV-SB3C-727-U-T4FT-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883240
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-727-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15413 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

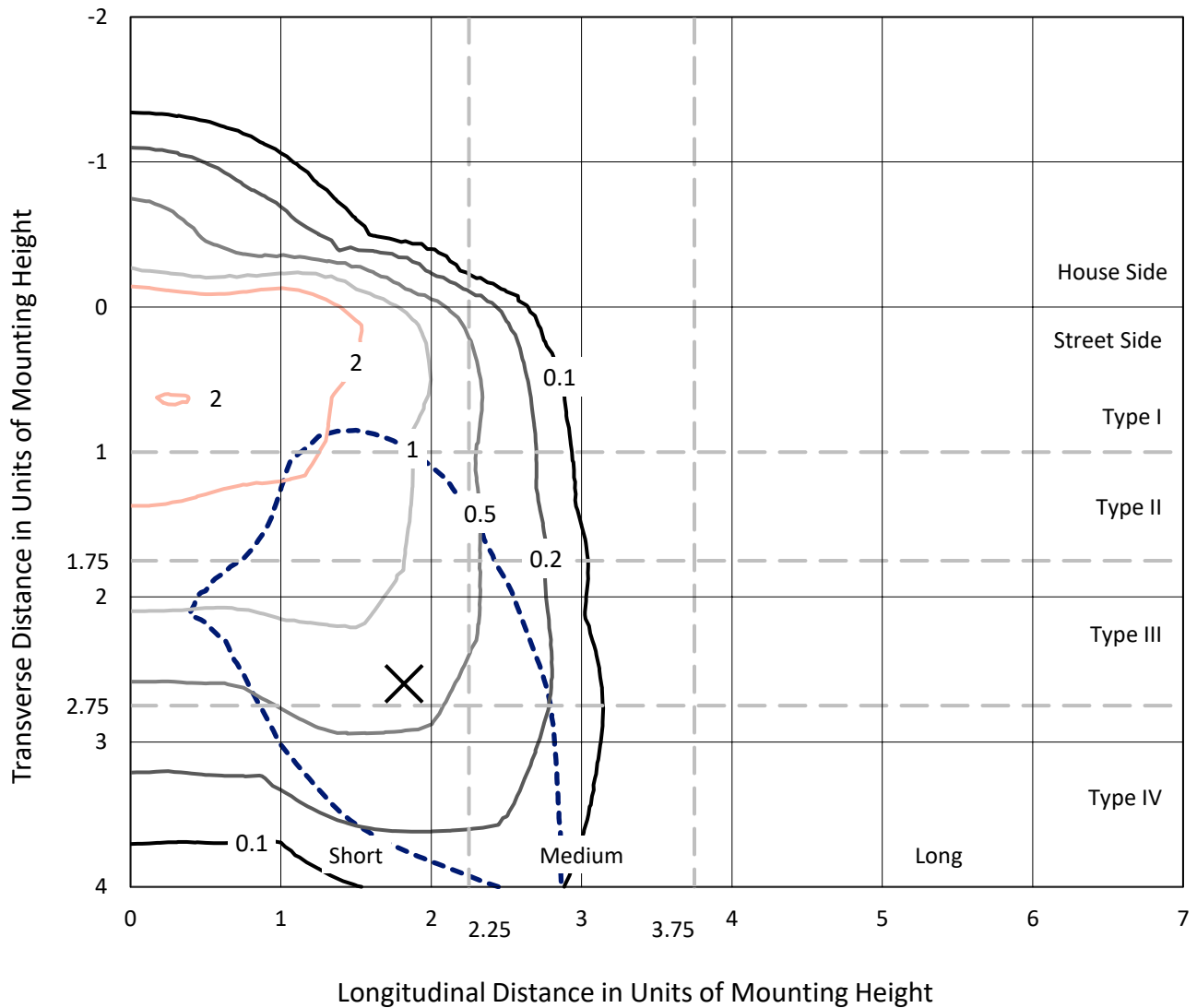
Input Watts (W): 149.1
Input Voltage (V): 120.0
Input Current (Ain): 1.259
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

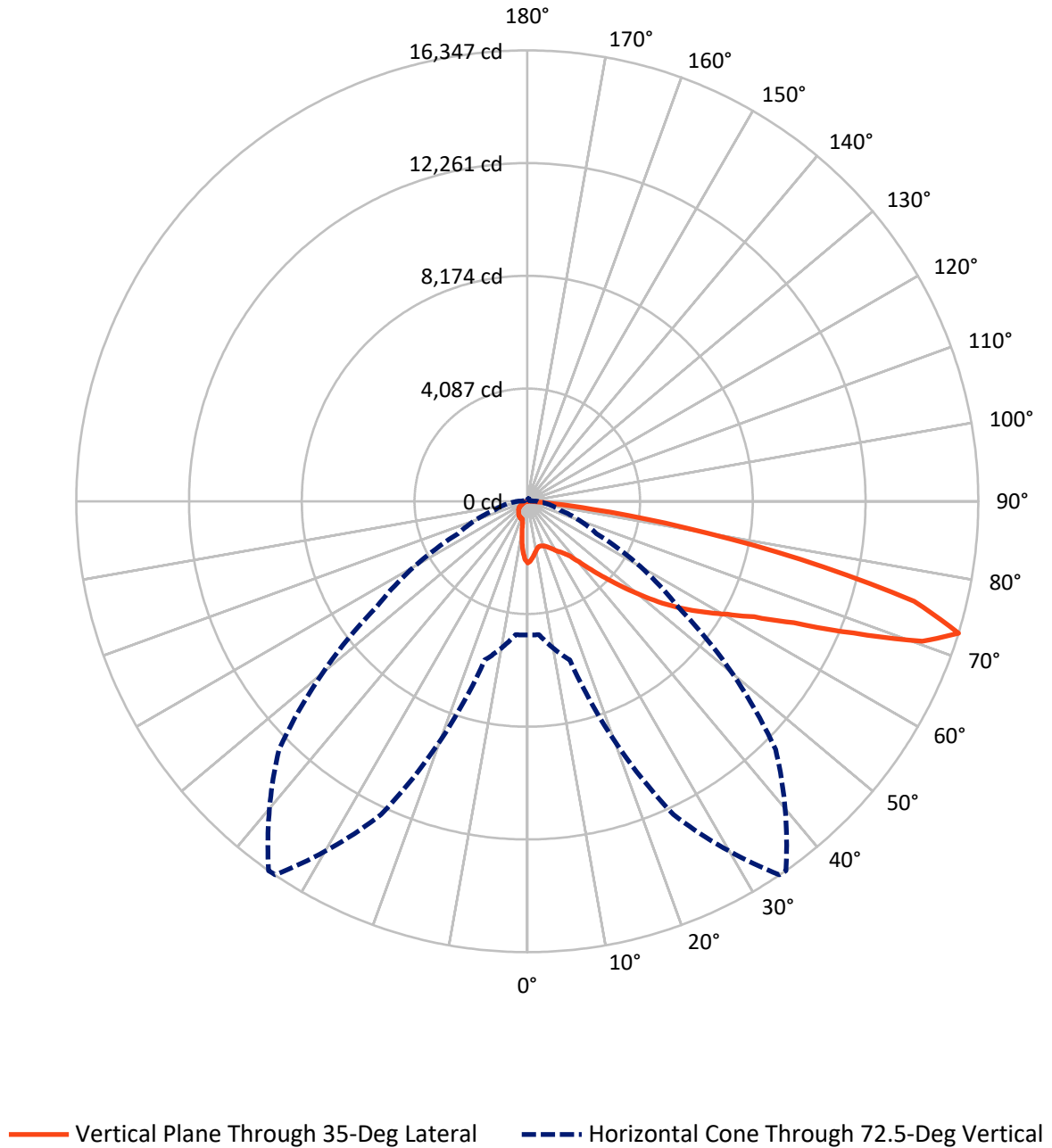
✕ Max cd
 - - - 1/2 Max cd



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	1734.7	0.0	1734.7
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	13678.3	0.0	13678.3
	% Fixture	88.7	0.0	88.7
Total	Lumens	15413.0	0.0	15413.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.6	1.2
10°-20°	429.4	2.8
20°-30°	697.6	4.5
30°-40°	1163.9	7.6
40°-50°	2202.2	14.3
50°-60°	3499.2	22.7
60°-70°	4328.8	28.1
70°-80°	2690.8	17.5
80°-90°	217.5	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°	15413.0	100.0
0°-180°	15413.0	100.0

Coefficient of Utilization



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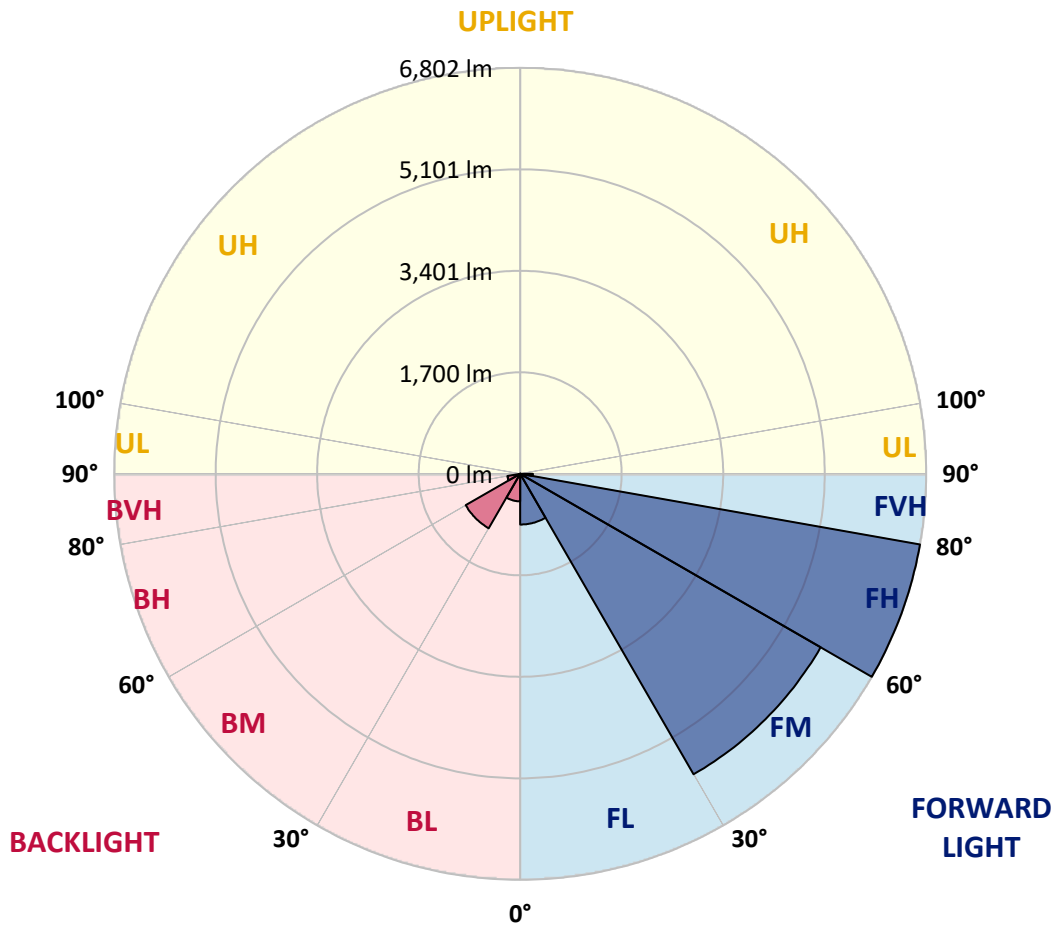
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	849.6	5.5			
FM (30°-60°)	5812.2	37.7			
FH (60°-80°)	6801.9	44.1			G3/7500
FVH (80°-90°)	214.5	1.4			G2/225
BL (0°-30°)	460.9	3.0	B1/500		
BM (30°-60°)	1053.1	6.8	B2/2500		
BH (60°-80°)	217.7	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°	2233.9	2233.9	2233.9	2233.9	2233.9	2233.9	2233.9	2233.9	2233.9	2233.9	2233.9
2.5°	2134.5	2152.5	2155.9	2161.6	2161.6	2168.4	2179.7	2195.5	2221.4	2235.0	2244.0
5°	1967.3	1980.9	1997.8	2011.4	2037.4	2040.7	2084.8	2127.7	2187.6	2232.7	2264.4
7.5°	1799.1	1814.9	1837.5	1870.2	1904.1	1914.3	1980.9	2053.2	2148.0	2232.7	2285.8
10°	1680.5	1681.6	1701.9	1734.7	1788.9	1801.3	1882.6	1985.4	2104.0	2219.2	2306.1
12.5°	1613.8	1621.8	1630.8	1655.6	1707.6	1715.5	1802.4	1923.3	2059.9	2211.3	2329.9
15°	1613.8	1619.5	1625.1	1637.6	1679.3	1686.1	1762.9	1883.8	2037.4	2214.7	2368.3
17.5°	1630.8	1639.8	1635.3	1650.0	1694.0	1698.5	1766.3	1872.5	2036.2	2236.1	2427.0
20°	1671.4	1678.2	1669.2	1678.2	1722.3	1731.3	1801.3	1893.9	2055.4	2273.4	2500.4
22.5°	1735.8	1739.2	1717.7	1724.5	1769.7	1781.0	1862.3	1954.9	2101.7	2333.2	2598.6
25°	1817.1	1823.9	1791.2	1799.1	1842.0	1855.5	1949.3	2046.4	2175.1	2415.7	2724.0
27.5°	1910.9	1914.3	1886.0	1884.9	1940.2	1959.4	2054.3	2159.3	2273.4	2519.6	2882.1
30°	2018.2	2028.3	2001.2	1996.7	2066.7	2082.5	2176.3	2298.2	2417.9	2675.4	3106.9
32.5°	2102.9	2110.8	2095.0	2106.2	2177.4	2189.8	2324.2	2494.7	2644.9	2896.8	3412.9
35°	2224.8	2229.3	2193.2	2213.5	2294.8	2326.5	2526.4	2770.3	2930.7	3174.6	3812.7
37.5°	2666.4	2666.4	2512.8	2412.3	2490.2	2518.5	2803.1	3117.0	3283.0	3547.3	4316.4
40°	3277.4	3267.2	3042.5	2836.9	2826.8	2882.1	3197.2	3554.1	3738.2	3994.5	4883.3
42.5°	3929.0	3913.2	3607.2	3403.9	3370.0	3389.2	3652.3	4092.8	4280.2	4540.0	5493.2
45°	4507.2	4502.7	4222.7	3949.3	3888.4	3949.3	4220.4	4723.0	4857.3	5130.7	6101.9
47.5°	4991.7	4991.7	4787.3	4608.9	4577.3	4613.4	4989.5	5422.0	5409.6	5759.7	6694.8
50°	5549.6	5545.1	5350.9	5274.1	5306.8	5357.7	5874.9	6158.4	5981.1	6377.5	7224.5
52.5°	5940.4	5967.5	5900.9	5888.4	6055.6	6143.7	6773.9	6878.9	6492.7	6963.6	7620.9
55°	6249.8	6281.5	6358.3	6445.2	6767.1	6882.3	7644.6	7562.1	6920.7	7471.8	7849.0
57.5°	6688.0	6642.9	6761.4	6933.1	7453.7	7592.6	8488.2	8207.0	7265.1	7884.0	7873.8
60°	7220.0	7226.7	7247.1	7463.9	8139.2	8317.7	9319.4	8816.9	7486.5	8137.0	7598.3
62.5°	7859.2	7869.3	7911.1	8244.3	9059.7	9227.9	10204.8	9316.0	7588.1	8065.8	6886.8
65°	7815.1	7858.0	8324.5	9464.0	10458.9	10625.0	11238.2	9666.1	7434.5	7415.3	5607.2
67.5°	7119.4	7189.5	7969.8	10920.8	12568.6	12753.8	12487.3	9735.0	6771.6	5766.5	3658.0
70°	6206.9	6231.8	7170.3	12230.9	15011.4	15198.8	13605.3	8977.2	5138.6	3216.4	1638.7
72.5°	4847.2	4852.8	5953.9	12534.7	16337.2	16347.4	12727.8	6664.3	2763.5	1235.5	569.2
75°	3462.6	3428.7	3987.7	10165.3	14373.3	14488.5	9541.9	3126.0	1055.9	583.9	283.5
77.5°	1856.7	1893.9	2256.4	6028.5	9929.3	10125.8	5206.3	901.2	537.6	397.5	187.5
80°	573.7	605.3	924.9	2760.1	5624.2	5742.8	1930.1	400.9	374.9	283.5	123.1
82.5°	180.7	187.5	431.4	1159.8	2334.4	2388.6	559.0	227.0	256.4	187.5	72.3
85°	52.0	53.1	192.0	432.5	577.1	588.4	157.0	88.1	146.8	116.3	37.3
87.5°	5.6	18.1	72.3	72.3	50.8	49.7	16.9	19.2	41.8	14.7	6.8
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°	2233.9	2233.9	2233.9	2233.9	2233.9	2233.9	2233.9	2233.9	2233.9	2233.9	2233.9
2.5°	2238.4	2239.5	2224.8	2200.0	2172.9	2150.3	2122.1	2099.5	2083.7	2079.1	2087.0
5°	2254.2	2246.3	2204.5	2128.8	2038.5	1960.6	1873.6	1804.7	1759.5	1740.3	1747.1
7.5°	2277.9	2255.3	2163.8	2014.8	1842.0	1688.4	1532.5	1411.7	1334.9	1296.5	1302.1
10°	2298.2	2253.1	2096.1	1849.9	1585.6	1353.0	1142.9	997.2	915.9	877.5	878.6
12.5°	2317.4	2251.9	2008.0	1654.5	1296.5	1011.9	816.5	744.2	721.7	713.8	711.5
15°	2353.6	2255.3	1897.3	1430.9	1008.5	764.6	693.4	692.3	696.8	694.6	693.4
17.5°	2403.3	2258.7	1772.0	1193.7	778.1	674.2	670.8	681.0	687.8	684.4	683.3
20°	2467.6	2272.3	1638.7	958.8	668.6	651.6	659.5	668.6	674.2	668.6	667.4
22.5°	2558.0	2296.0	1493.0	770.2	633.6	638.1	644.9	655.0	660.7	652.8	651.6
25°	2668.7	2333.2	1349.6	669.7	616.6	622.3	632.4	643.7	650.5	642.6	641.5
27.5°	2812.1	2393.1	1217.4	647.1	599.7	603.1	617.8	634.7	643.7	633.6	633.6
30°	3019.9	2491.4	1103.4	657.3	589.5	581.6	601.9	625.7	635.8	626.8	625.7
32.5°	3295.5	2630.3	1033.4	673.1	585.0	556.8	576.0	606.5	623.4	617.8	617.8
35°	3656.8	2841.5	1006.3	691.2	581.6	530.8	544.3	577.1	606.5	612.1	612.1
37.5°	4095.0	3135.1	1014.2	699.1	571.5	509.3	516.1	544.3	582.7	600.8	605.3
40°	4593.1	3477.3	1059.3	691.2	560.2	491.3	492.4	513.9	547.7	574.8	583.9
42.5°	5106.9	3877.1	1142.9	661.8	550.0	475.5	472.1	486.8	509.3	528.5	536.4
45°	5595.9	4288.2	1225.3	621.1	537.6	459.6	451.7	457.4	461.9	469.8	474.3
47.5°	6022.8	4577.3	1201.6	583.9	520.6	441.6	428.0	425.8	412.2	411.1	410.0
50°	6317.6	4640.5	1067.2	546.6	495.8	421.2	399.8	386.2	362.5	351.2	352.4
52.5°	6411.3	4390.9	871.9	509.3	455.1	394.1	363.7	342.2	312.8	302.7	301.5
55°	6287.1	3901.9	696.8	464.2	398.7	358.0	324.1	295.9	272.2	259.8	259.8
57.5°	5983.3	3279.6	551.1	411.1	338.8	317.3	283.5	255.2	234.9	222.5	220.2
60°	5479.6	2604.3	435.9	347.8	289.1	273.3	238.3	220.2	202.2	187.5	184.1
62.5°	4715.0	1858.9	342.2	275.6	241.7	223.6	203.3	189.7	168.3	147.9	144.6
65°	3679.4	1137.3	264.3	202.2	194.2	185.2	172.8	160.4	134.4	114.1	110.7
67.5°	2320.8	538.7	188.6	152.5	153.6	149.1	143.4	133.3	114.1	96.0	93.7
70°	1022.1	260.9	124.2	116.3	114.1	114.1	118.6	115.2	97.1	80.2	76.8
72.5°	347.8	140.0	92.6	88.1	82.4	81.3	99.4	96.0	77.9	62.1	58.7
75°	181.8	93.7	67.8	63.2	49.7	59.9	79.1	74.5	55.3	40.7	37.3
77.5°	118.6	66.6	46.3	40.7	28.2	39.5	58.7	52.0	32.8	20.3	18.1
80°	74.5	44.0	27.1	19.2	13.6	21.5	31.6	22.6	12.4	4.5	3.4
82.5°	39.5	22.6	10.2	6.8	5.6	6.8	7.9	5.6	2.3	0.0	0.0
85°	15.8	7.9	3.4	2.3	1.1	0.0	2.3	1.1	0.0	0.0	0.0
87.5°	5.6	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)