

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: P883229

Luminaire Tested: **NAV-SB3C-722-U-T3**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883229
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-722-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17913 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

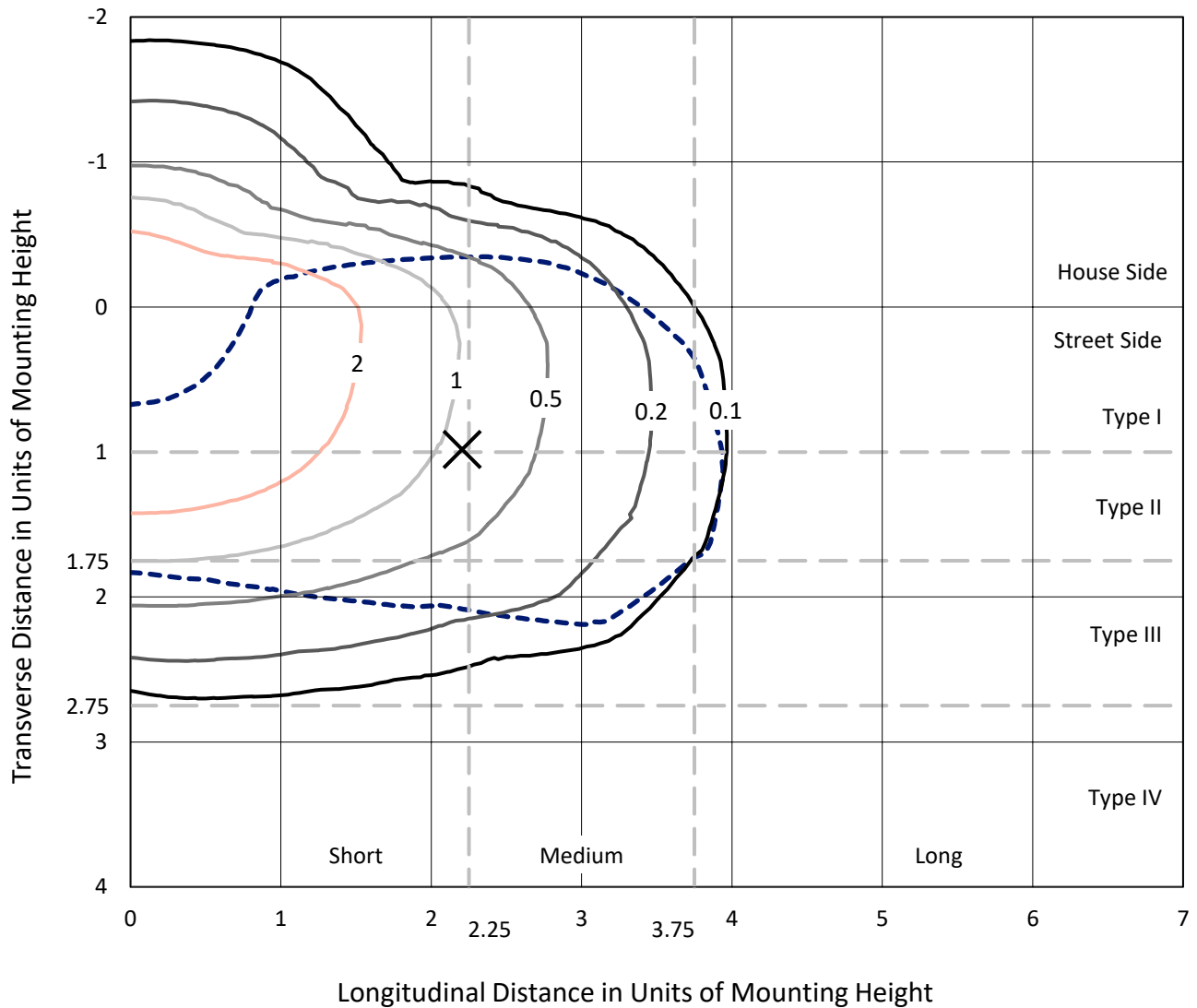
Input Watts (W): 149.1
Input Voltage (V): 120.0
Input Current (Ain): 1.259
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

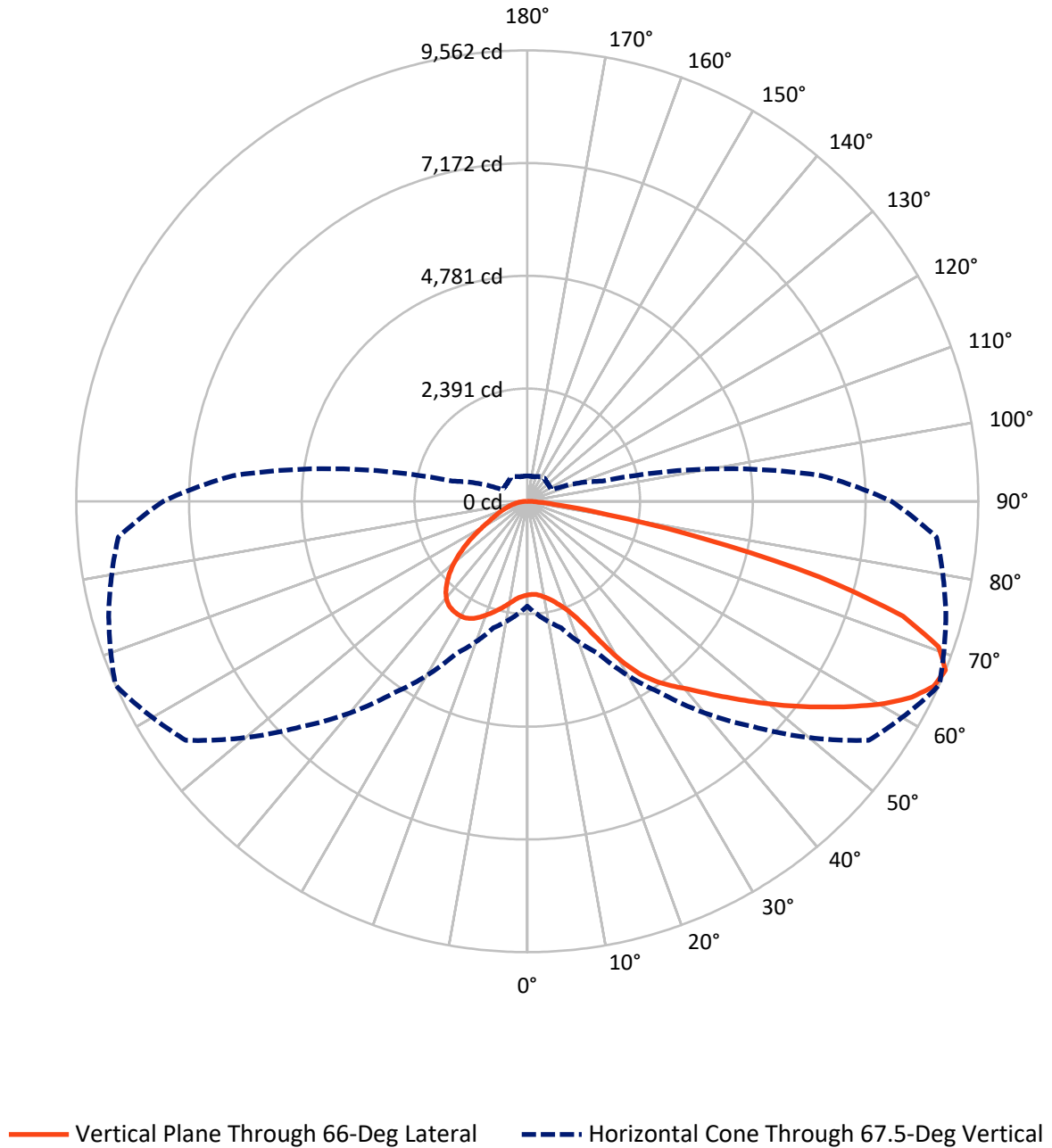
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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	4454.0	0.0	4454.0
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	13459.0	0.0	13459.0
	% Fixture	75.1	0.0	75.1
Total	Lumens	17913.0	0.0	17913.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.0	1.1
10°-20°	650.8	3.6
20°-30°	1254.4	7.0
30°-40°	2199.4	12.3
40°-50°	3269.8	18.3
50°-60°	4144.8	23.1
60°-70°	4055.6	22.6
70°-80°	1934.5	10.8
80°-90°	206.7	1.2
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°	17913.0	100.0
0°-180°	17913.0	100.0

Coefficient of Utilization



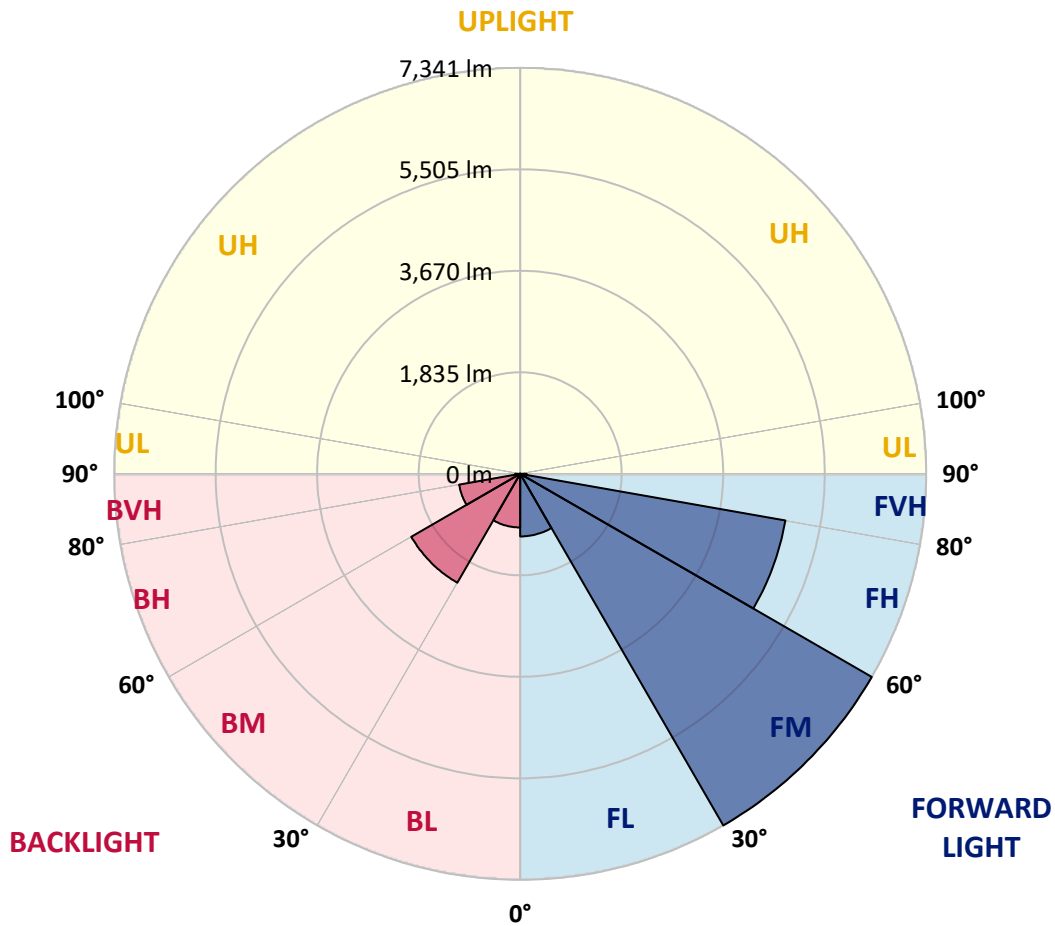
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1131.9	6.3			
FM (30°-60°)	7340.6	41.0			
FH (60°-80°)	4869.2	27.2			G2/5000
FVH (80°-90°)	117.2	0.7			G2/225
BL (0°-30°)	970.2	5.4	B2/1000		
BM (30°-60°)	2273.4	12.7	B2/2500		
BH (60°-80°)	1120.9	6.3	B3/2500		G3/2500
BVH (80°-90°)	89.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1986.8	1986.8	1986.8	1986.8	1986.8	1986.8	1986.8	1986.8	1986.8	1986.8	1986.8
2.5°	1966.1	1977.4	1974.6	1969.8	1968.9	1970.8	1973.6	1976.4	1975.5	1980.2	1987.7
5°	1960.4	1971.7	1970.8	1970.8	1974.6	1982.1	1986.8	1991.5	1986.8	1992.4	2002.8
7.5°	1964.2	1972.7	1976.4	1980.2	1989.6	2003.7	2015.0	2025.4	2019.7	2026.3	2039.5
10°	2012.2	2018.8	2022.6	2022.6	2029.1	2045.1	2056.4	2075.3	2070.6	2080.9	2097.8
12.5°	2099.7	2106.3	2106.3	2102.6	2107.3	2117.6	2121.4	2142.1	2133.6	2150.6	2167.5
15°	2207.0	2220.2	2209.8	2203.3	2205.1	2215.5	2214.5	2230.5	2222.1	2236.2	2251.3
17.5°	2325.6	2342.5	2325.6	2324.7	2320.9	2332.2	2333.1	2347.3	2332.2	2342.5	2352.9
20°	2465.8	2489.4	2475.3	2480.0	2471.5	2476.2	2480.9	2501.6	2478.1	2485.6	2482.8
22.5°	2663.5	2691.7	2676.7	2694.5	2688.9	2685.1	2684.2	2720.9	2684.2	2687.0	2659.7
25°	2951.5	2985.4	2959.0	2983.5	2983.5	2995.7	3009.8	3056.9	2995.7	2977.8	2907.2
27.5°	3376.9	3410.8	3359.0	3374.1	3369.4	3399.5	3384.4	3501.1	3435.2	3406.1	3263.9
30°	3888.9	3949.1	3851.2	3847.5	3842.8	3890.8	3912.4	3989.6	3922.8	3893.6	3722.3
32.5°	4442.3	4505.3	4388.6	4354.7	4336.9	4366.0	4348.2	4410.3	4364.2	4319.0	4107.2
35°	5027.7	5089.8	4978.7	4912.9	4841.3	4780.2	4716.2	4732.2	4688.9	4620.2	4400.9
37.5°	5581.1	5695.0	5577.3	5506.7	5375.0	5255.4	5076.6	5002.3	4961.8	4898.7	4677.6
40°	6144.8	6209.8	6120.4	6060.1	5917.1	5729.8	5443.7	5286.5	5231.9	5170.7	4983.4
42.5°	6559.9	6622.0	6574.0	6532.6	6420.6	6203.2	5833.3	5636.6	5557.5	5488.8	5329.8
45°	6889.3	6935.4	6905.3	6920.3	6872.3	6661.5	6237.1	6012.1	5930.2	5846.5	5721.3
47.5°	7022.0	7070.9	7118.9	7208.3	7290.2	7134.9	6670.9	6418.7	6332.1	6246.5	6123.2
50°	7006.9	7056.8	7196.1	7386.2	7640.3	7588.6	7128.3	6851.6	6771.6	6673.8	6559.9
52.5°	6886.5	6942.9	7121.8	7438.0	7842.7	7928.3	7594.2	7298.7	7223.4	7106.7	6992.8
55°	6570.2	6604.1	6872.3	7320.3	7890.7	8165.5	8050.7	7774.9	7699.6	7536.8	7412.6
57.5°	5983.9	6032.8	6423.4	7003.2	7770.2	8326.4	8451.6	8275.6	8203.1	7968.8	7838.9
60°	5218.7	5296.8	5743.9	6470.5	7463.4	8325.5	8815.8	8767.8	8707.6	8394.2	8258.7
62.5°	4352.9	4443.2	4873.3	5717.5	6926.9	8089.3	9043.6	9180.1	9149.0	8786.7	8613.5
65°	3343.0	3405.1	3833.3	4743.4	6092.1	7582.0	9070.0	9461.5	9467.1	9085.0	8798.9
67.5°	2225.8	2404.7	2776.4	3559.5	4974.0	6752.8	8838.4	9507.6	9562.2	9187.6	8705.7
70°	1086.1	1321.4	1685.6	2313.4	3559.5	5481.3	8233.3	9129.3	9250.7	8888.3	8150.4
72.5°	450.8	527.0	725.6	1141.6	2043.3	3698.8	7017.3	8103.4	8328.3	7875.6	6852.6
75°	304.0	329.4	415.1	585.4	930.8	1824.0	5060.6	6042.2	6404.6	5948.1	4862.0
77.5°	234.3	250.3	302.1	409.4	553.4	689.9	2708.7	3641.3	3828.6	3544.4	2529.8
80°	184.5	196.7	225.9	298.3	392.5	368.9	923.3	1649.9	1758.1	1474.8	813.2
82.5°	160.0	164.7	161.9	202.3	260.7	215.5	303.1	608.9	672.0	487.5	265.4
85°	115.8	128.9	134.6	125.2	138.4	109.2	124.2	215.5	237.2	211.8	149.6
87.5°	47.1	69.6	85.6	80.9	50.8	31.1	38.6	63.1	72.5	79.1	48.9
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°	1986.8	1986.8	1986.8	1986.8	1986.8	1986.8	1986.8	1986.8	1986.8	1986.8	1986.8
2.5°	1988.7	1995.3	2000.0	2005.6	2009.4	2015.0	2026.3	2032.9	2033.8	2038.6	2037.6
5°	2006.6	2016.0	2026.3	2041.4	2058.3	2072.4	2094.1	2109.1	2114.8	2119.5	2118.6
7.5°	2045.1	2058.3	2077.1	2103.5	2128.0	2146.8	2173.1	2191.0	2208.9	2215.5	2216.4
10°	2102.6	2121.4	2148.7	2184.4	2210.8	2235.3	2262.5	2277.6	2295.5	2303.0	2306.8
12.5°	2174.1	2193.8	2229.6	2279.5	2304.0	2320.9	2330.3	2326.5	2330.3	2336.9	2338.8
15°	2256.0	2277.6	2318.1	2371.7	2388.7	2373.6	2352.9	2334.1	2331.3	2333.1	2339.7
17.5°	2352.9	2368.9	2416.0	2461.1	2448.9	2386.8	2341.6	2311.5	2296.4	2291.7	2298.3
20°	2488.4	2488.4	2527.0	2555.2	2473.4	2368.0	2297.4	2248.4	2217.4	2204.2	2201.4
22.5°	2653.1	2638.1	2662.5	2642.8	2468.7	2315.3	2217.4	2132.7	2085.6	2066.8	2064.0
25°	2862.1	2844.2	2837.6	2715.2	2434.8	2231.5	2072.4	1969.8	1928.4	1918.1	1920.0
27.5°	3177.4	3132.2	3046.5	2754.8	2372.7	2099.7	1903.0	1808.0	1784.4	1785.4	1788.2
30°	3597.1	3506.8	3296.9	2761.4	2271.0	1913.4	1729.9	1662.1	1650.8	1655.5	1671.5
32.5°	3985.8	3900.2	3552.9	2731.2	2114.8	1730.8	1574.6	1529.4	1512.4	1518.1	1525.6
35°	4290.7	4267.2	3790.1	2688.9	1922.8	1559.5	1435.3	1396.7	1363.7	1356.2	1361.9
37.5°	4578.7	4569.3	3967.9	2629.6	1732.7	1438.1	1323.3	1272.4	1224.4	1198.1	1199.0
40°	4895.0	4885.6	4084.6	2538.3	1564.2	1332.7	1222.6	1155.7	1096.5	1048.5	1053.2
42.5°	5250.7	5195.2	4140.2	2407.5	1421.2	1243.3	1140.7	1050.3	972.2	928.0	930.8
45°	5639.4	5514.3	4139.2	2240.9	1300.7	1161.4	1053.2	925.2	852.7	811.3	809.4
47.5°	6051.7	5819.2	4088.4	2056.4	1184.0	1071.0	917.6	819.8	771.8	746.3	740.7
50°	6477.1	6104.4	4001.8	1844.7	1064.5	968.5	832.9	766.1	729.4	705.9	697.4
52.5°	6877.1	6363.2	3897.3	1604.7	943.0	868.7	795.3	743.5	704.9	678.6	667.3
55°	7248.8	6586.2	3749.6	1359.0	844.2	801.9	777.4	734.1	689.9	658.8	646.6
57.5°	7579.2	6731.2	3494.5	1128.5	773.6	755.8	758.6	718.1	667.3	640.9	624.0
60°	7854.0	6837.5	3117.1	914.8	716.2	710.6	729.4	688.0	628.7	598.6	585.4
62.5°	8018.7	6835.6	2654.1	749.2	667.3	669.2	690.8	650.3	590.1	561.9	553.4
65°	8004.6	6668.1	2145.8	640.9	620.2	622.1	650.3	608.9	558.1	541.2	540.2
67.5°	7721.3	6259.7	1646.1	570.3	568.5	576.9	609.9	580.7	538.3	536.5	539.3
70°	6954.2	5411.7	1185.9	513.9	514.8	527.0	570.3	562.8	528.0	531.8	530.8
72.5°	5576.4	4126.0	796.2	454.6	455.5	475.3	532.7	548.7	517.6	567.5	575.0
75°	3713.8	2573.1	512.0	391.5	392.5	417.9	499.8	521.4	489.4	565.6	570.3
77.5°	1784.4	1156.7	370.8	329.4	329.4	352.9	432.0	466.8	416.9	439.5	402.8
80°	616.5	434.8	291.8	265.4	259.8	275.8	364.2	404.7	359.5	331.3	310.6
82.5°	242.8	225.9	234.3	206.1	187.3	197.6	283.3	334.1	264.5	239.1	238.1
85°	139.3	146.8	165.6	136.5	108.2	121.4	208.0	240.0	199.5	176.0	179.8
87.5°	37.6	51.8	76.2	70.6	48.9	51.8	98.8	132.7	114.8	88.5	91.3
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)