

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: P883231

Luminaire Tested: **NAV-SB3C-722-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883231
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-722-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17692 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

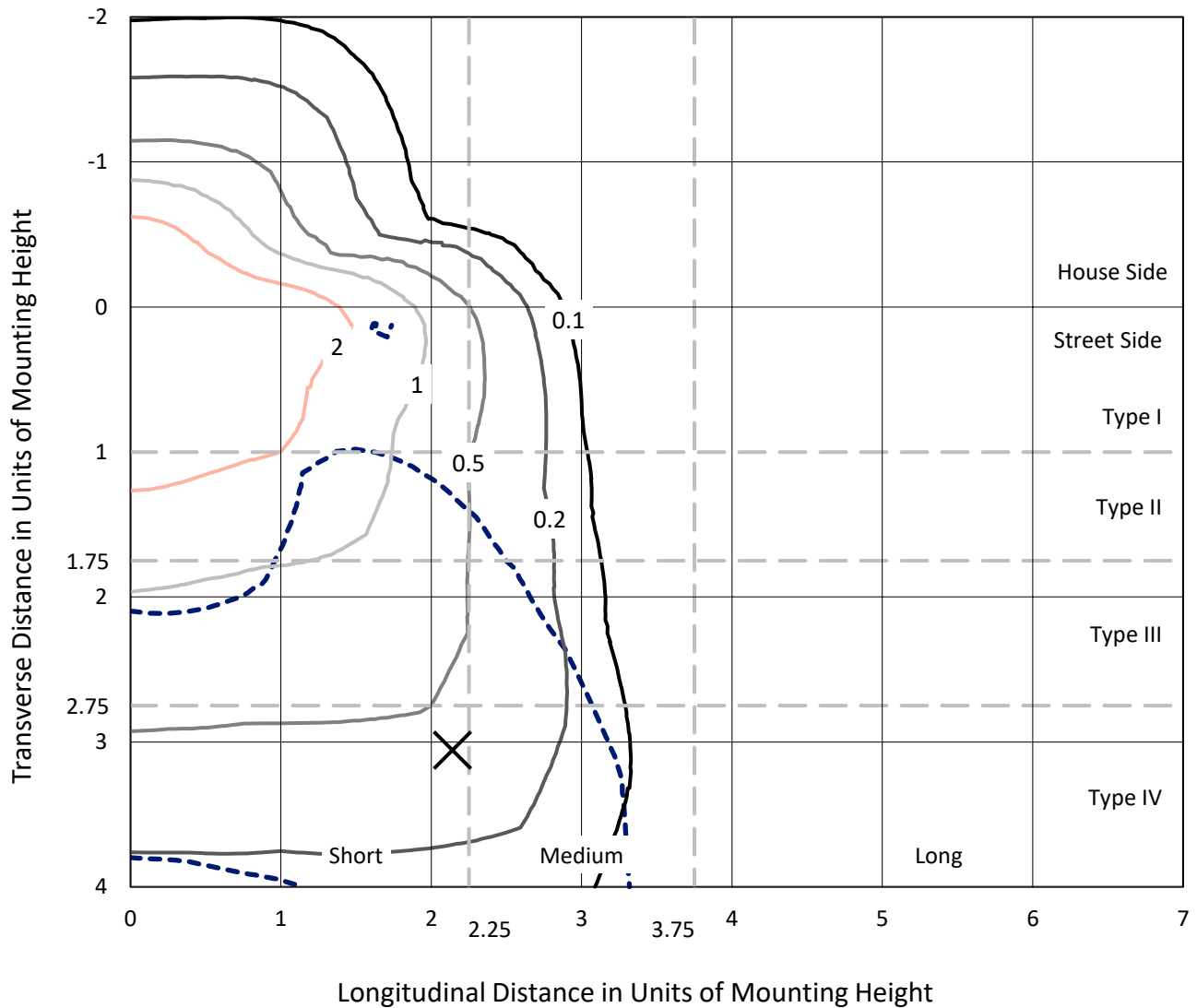
Input Watts (W): 149.1
Input Voltage (V): 120.0
Input Current (Ain): 1.259
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

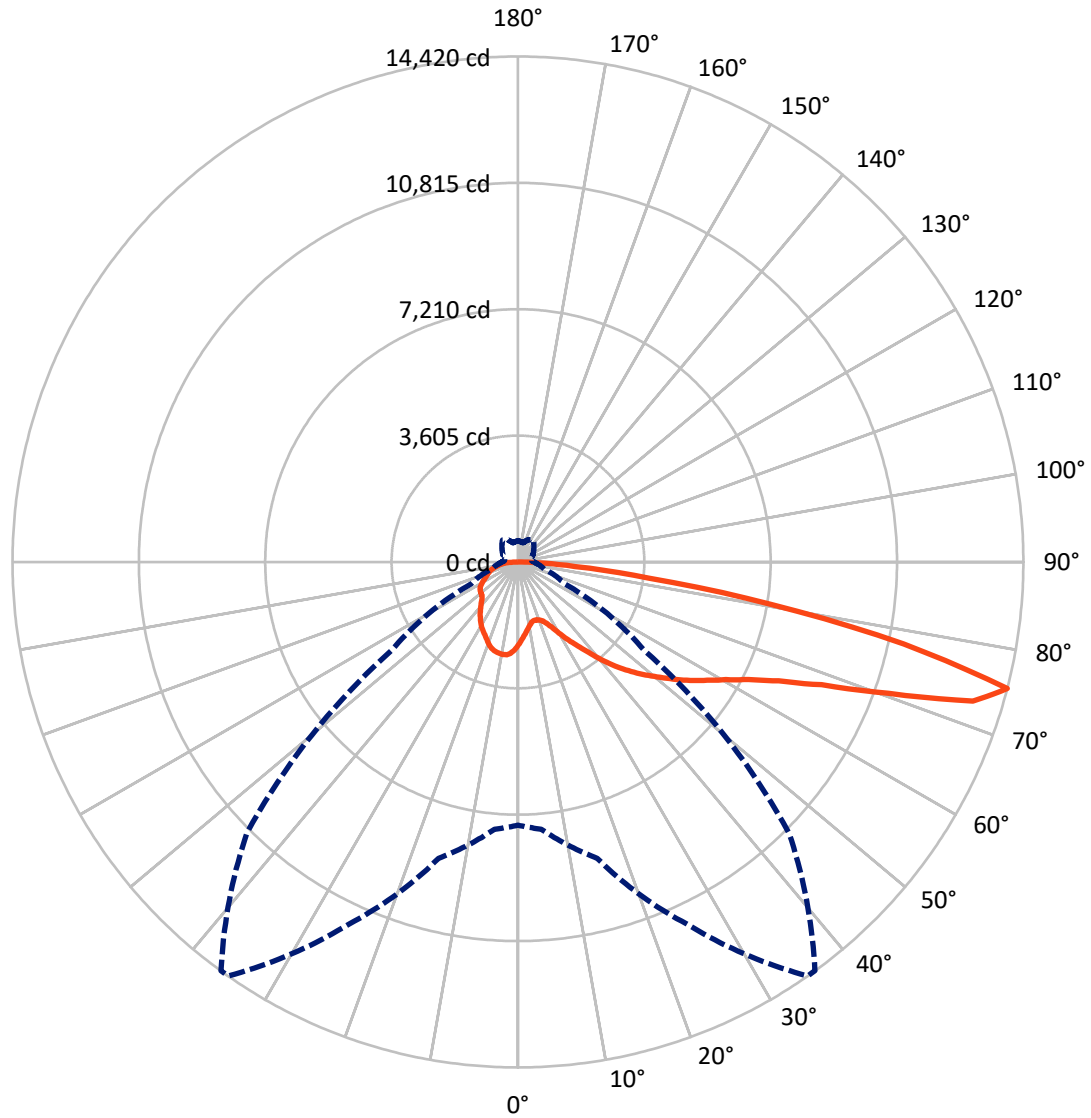
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4210.3	0.0	4210.3
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	13481.8	0.0	13481.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	17692.0	0.0	17692.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.2	1.3
10°-20°	643.9	3.6
20°-30°	1081.2	6.1
30°-40°	1680.3	9.5
40°-50°	2494.1	14.1
50°-60°	3443.2	19.5
60°-70°	4177.4	23.6
70°-80°	3452.3	19.5
80°-90°	496.5	2.8
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°	17692.0	100.0
0°-180°	17692.0	100.0

Coefficient of Utilization



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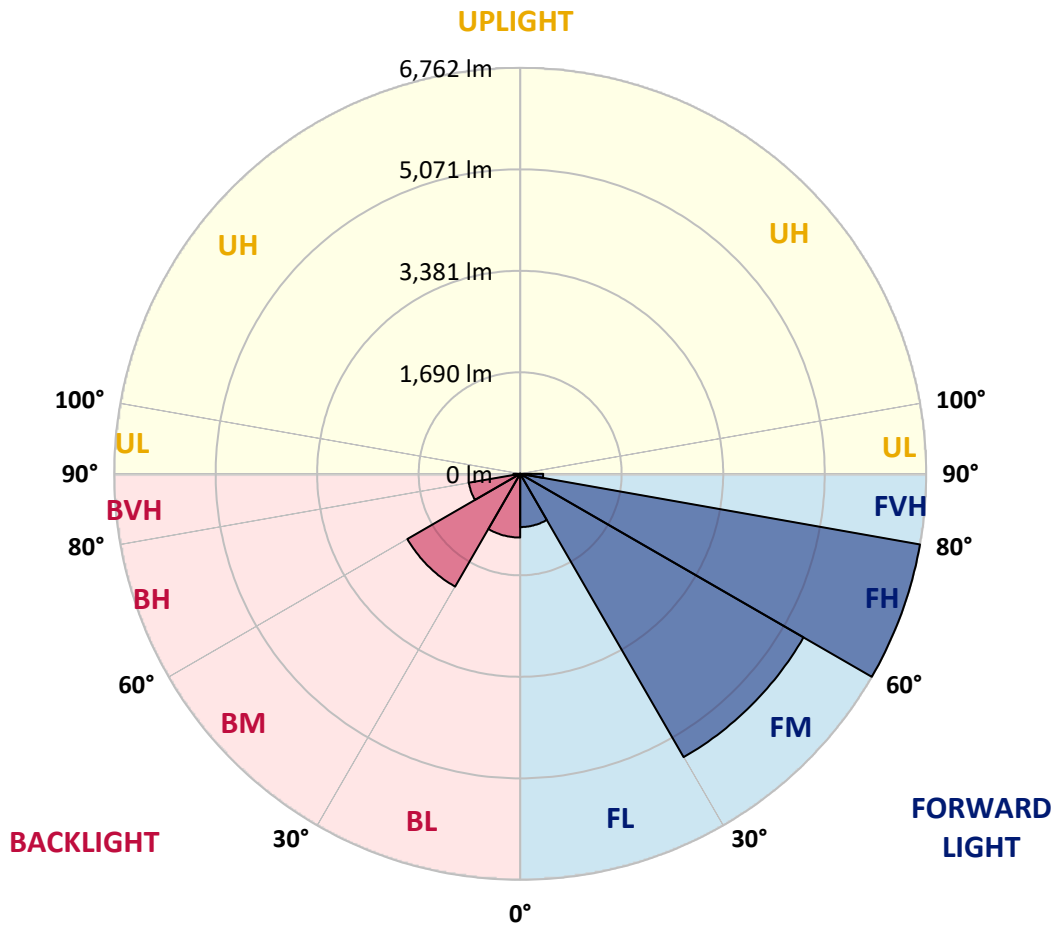
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	887.2	5.0			
FM (30°-60°)	5448.2	30.8			
FH (60°-80°)	6761.6	38.2			G3/7500
FVH (80°-90°)	384.7	2.2			G3/500
BL (0°-30°)	1061.0	6.0	B3/2500		
BM (30°-60°)	2169.4	12.3	B2/2500		
BH (60°-80°)	868.0	4.9	B2/1000		G2/1000
BVH (80°-90°)	111.8	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6
2.5°	2173.9	2187.3	2193.1	2190.2	2204.6	2202.6	2222.7	2247.6	2282.0	2315.5	2364.3
5°	2006.6	2020.9	2033.4	2044.8	2072.6	2081.2	2112.7	2160.6	2223.7	2287.8	2368.1
7.5°	1850.7	1863.1	1882.2	1903.3	1950.1	1958.8	2011.4	2086.0	2173.9	2267.7	2378.6
10°	1723.5	1735.9	1756.0	1779.9	1838.2	1848.8	1915.7	2015.2	2130.0	2248.5	2390.1
12.5°	1669.0	1672.8	1684.3	1708.2	1758.9	1765.6	1839.2	1953.0	2086.9	2234.2	2407.3
15°	1666.1	1673.7	1674.7	1687.1	1729.2	1732.1	1800.0	1912.8	2060.1	2231.3	2433.1
17.5°	1694.8	1700.5	1691.9	1699.6	1734.9	1739.7	1793.3	1893.7	2051.5	2243.8	2477.1
20°	1771.3	1776.1	1750.3	1739.7	1765.6	1769.4	1822.0	1906.1	2060.1	2269.6	2537.4
22.5°	1933.9	1936.8	1873.6	1830.6	1832.5	1834.4	1880.3	1956.8	2093.6	2316.5	2613.9
25°	2187.3	2185.4	2085.0	2001.8	1954.0	1943.4	1974.1	2039.1	2150.0	2378.6	2712.4
27.5°	2483.8	2469.5	2369.1	2244.7	2140.5	2125.2	2118.5	2146.2	2230.4	2460.9	2832.9
30°	2818.6	2805.2	2697.1	2534.5	2390.1	2365.2	2302.1	2287.8	2349.9	2572.8	3000.3
32.5°	3185.8	3177.2	3048.1	2851.1	2657.9	2629.2	2523.0	2484.8	2533.6	2742.1	3233.7
35°	3493.8	3486.2	3379.0	3176.3	2940.0	2904.7	2796.6	2753.5	2778.4	2959.2	3538.8
37.5°	3772.1	3768.3	3676.5	3516.8	3272.9	3229.8	3108.4	3094.0	3089.2	3245.1	3908.9
40°	4030.4	4020.8	3925.2	3841.0	3660.2	3621.0	3513.9	3501.5	3465.1	3597.1	4327.8
42.5°	4316.3	4291.5	4152.8	4113.6	4064.8	4032.3	3968.2	3970.1	3889.8	3994.0	4771.6
45°	4549.7	4535.4	4392.8	4369.9	4422.5	4409.1	4464.6	4478.9	4323.0	4410.1	5232.6
47.5°	4800.3	4786.9	4666.4	4650.1	4792.6	4796.5	4992.5	4997.3	4745.8	4842.4	5694.5
50°	5109.2	5090.1	4970.5	4990.6	5150.3	5164.7	5523.3	5490.8	5135.0	5281.4	6152.7
52.5°	5312.9	5324.4	5298.6	5331.1	5549.2	5562.5	6045.5	5962.3	5520.5	5714.6	6602.2
55°	5463.1	5486.0	5566.4	5641.0	5970.0	5983.4	6538.1	6410.9	5839.9	6116.3	7024.9
57.5°	5656.3	5623.8	5773.9	5919.3	6369.8	6405.2	7017.3	6843.2	6123.0	6462.5	7314.7
60°	5933.6	5910.7	6027.4	6242.6	6817.4	6873.8	7524.2	7232.5	6330.6	6737.0	7371.1
62.5°	6496.0	6438.6	6456.8	6647.1	7381.7	7456.3	8096.1	7572.0	6433.8	6844.2	7068.9
65°	7336.7	7238.2	7146.4	7278.4	8176.4	8250.1	8741.7	7838.8	6395.6	6636.6	6266.5
67.5°	8395.5	8297.9	8185.1	8309.4	9347.1	9405.4	9538.4	7989.0	6094.3	5837.0	4848.1
70°	9268.7	9232.3	9367.2	9878.9	11216.9	11218.8	10559.8	7864.7	5268.9	4138.4	2805.2
72.5°	9153.0	9131.0	9841.6	11423.5	13573.5	13522.8	11526.8	6923.5	3549.3	1866.9	1051.1
75°	7508.9	7651.4	8752.2	11395.8	14420.0	14413.3	10934.8	4401.5	1468.1	773.7	543.2
77.5°	4026.5	4252.2	5682.1	8413.6	11257.1	11426.4	7687.7	1539.8	630.3	495.4	375.9
80°	1313.2	1510.2	2264.8	4283.8	7314.7	7283.1	3294.9	604.5	431.3	351.0	260.1
82.5°	557.6	580.5	1011.9	2022.8	3754.0	3695.6	1049.2	347.2	303.2	240.1	160.7
85°	218.1	243.9	446.6	935.4	1625.9	1590.5	378.7	172.2	194.2	156.9	95.6
87.5°	71.7	87.0	159.7	320.4	505.9	487.8	92.8	59.3	84.2	71.7	34.4
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°	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6
2.5°	2377.7	2393.0	2411.1	2437.9	2460.9	2480.0	2500.1	2512.5	2517.3	2531.6	2530.7
5°	2394.9	2428.4	2473.3	2517.3	2560.3	2586.2	2609.1	2620.6	2631.1	2638.8	2640.7
7.5°	2423.6	2466.6	2537.4	2594.8	2631.1	2652.2	2667.5	2663.6	2667.5	2669.4	2672.2
10°	2448.4	2508.7	2592.9	2647.4	2675.1	2676.1	2672.2	2658.9	2652.2	2653.1	2655.0
12.5°	2478.1	2545.0	2635.9	2681.8	2689.5	2668.4	2652.2	2629.2	2620.6	2616.8	2614.9
15°	2518.3	2594.8	2682.8	2700.0	2680.8	2654.1	2626.3	2589.0	2569.9	2554.6	2559.4
17.5°	2567.0	2651.2	2719.1	2706.7	2665.5	2621.6	2576.6	2520.2	2481.0	2464.7	2465.7
20°	2634.9	2710.5	2746.8	2692.3	2630.2	2563.2	2486.7	2417.8	2381.5	2365.2	2363.3
22.5°	2717.2	2789.9	2773.6	2667.5	2579.5	2472.3	2376.7	2326.0	2307.8	2296.4	2298.3
25°	2815.7	2877.9	2792.8	2631.1	2496.3	2351.8	2278.2	2261.9	2253.3	2244.7	2244.7
27.5°	2943.9	2977.3	2807.1	2577.6	2366.2	2223.7	2196.9	2199.8	2196.9	2182.6	2185.4
30°	3113.2	3106.5	2820.5	2490.5	2217.0	2108.0	2109.9	2122.3	2124.2	2114.6	2119.4
32.5°	3336.0	3268.1	2827.2	2377.7	2074.5	2006.6	2008.5	2021.9	2031.4	2015.2	2022.8
35°	3605.7	3456.5	2816.7	2236.1	1964.5	1910.0	1895.6	1899.5	1902.3	1887.0	1897.5
37.5°	3920.4	3667.9	2769.8	2079.3	1873.6	1815.3	1784.7	1758.9	1743.6	1729.2	1738.8
40°	4265.6	3898.4	2683.7	1926.2	1772.2	1714.9	1669.0	1620.2	1568.5	1549.4	1558.0
42.5°	4627.2	4135.6	2579.5	1779.9	1655.6	1608.7	1559.9	1489.1	1411.7	1372.5	1377.2
45°	5002.1	4378.5	2477.1	1635.5	1536.0	1515.9	1459.5	1374.4	1290.2	1240.5	1236.7
47.5°	5369.3	4608.0	2327.0	1490.1	1424.1	1446.1	1402.1	1323.7	1230.0	1151.5	1142.9
50°	5720.4	4823.2	2081.2	1342.8	1333.3	1425.1	1383.0	1270.1	1163.0	1062.6	1054.0
52.5°	6068.5	4997.3	1766.5	1208.9	1284.5	1419.3	1358.1	1233.8	1102.8	997.5	986.1
55°	6364.0	5087.2	1463.3	1094.1	1213.7	1370.6	1328.5	1190.7	1017.6	905.7	896.2
57.5°	6532.4	5014.5	1210.8	981.3	1116.1	1290.2	1277.8	1098.9	916.3	830.2	818.7
60°	6459.7	4719.9	1004.2	882.8	1023.4	1203.2	1189.8	1008.1	838.8	757.5	746.0
62.5°	6058.9	4158.5	840.7	796.7	939.2	1114.2	1101.8	938.2	779.5	701.1	688.6
65°	5251.7	3382.9	713.5	725.0	854.1	1007.1	1025.3	879.9	732.6	656.1	643.7
67.5°	4005.5	2450.4	614.0	662.8	770.9	901.9	954.5	837.8	693.4	620.7	609.2
70°	2283.0	1391.6	529.9	602.5	697.2	804.4	900.0	804.4	651.3	591.1	583.4
72.5°	865.6	638.9	458.1	542.3	626.5	722.1	839.7	751.7	602.5	557.6	549.9
75°	462.0	389.3	385.4	471.5	545.2	641.8	764.2	700.1	566.2	589.2	608.3
77.5°	314.7	275.4	322.3	403.6	456.2	552.8	683.8	621.7	490.6	488.7	450.5
80°	218.1	195.1	262.1	325.2	352.9	464.8	596.8	533.7	399.8	373.0	356.7
82.5°	131.0	127.2	196.1	242.9	249.6	358.7	494.5	447.6	327.1	285.0	286.9
85°	71.7	75.6	125.3	142.5	145.4	250.6	387.4	346.2	251.5	211.4	213.3
87.5°	20.1	25.8	45.9	56.4	69.8	130.1	230.5	205.6	126.2	88.0	88.0
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)