

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: P963410

Luminaire Tested: **NAV-SB3A-722-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963410
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3A-722-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11327.3 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

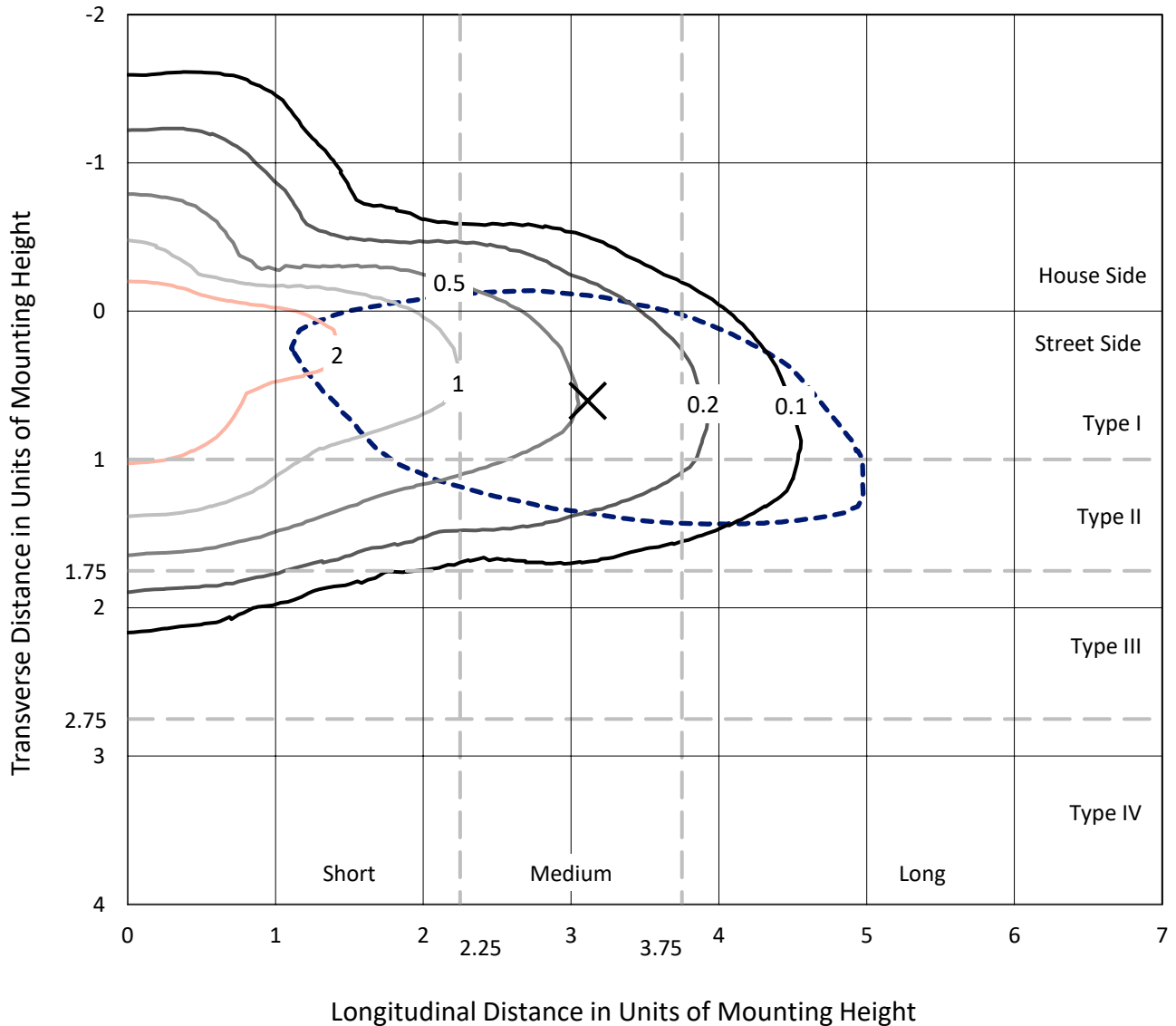
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

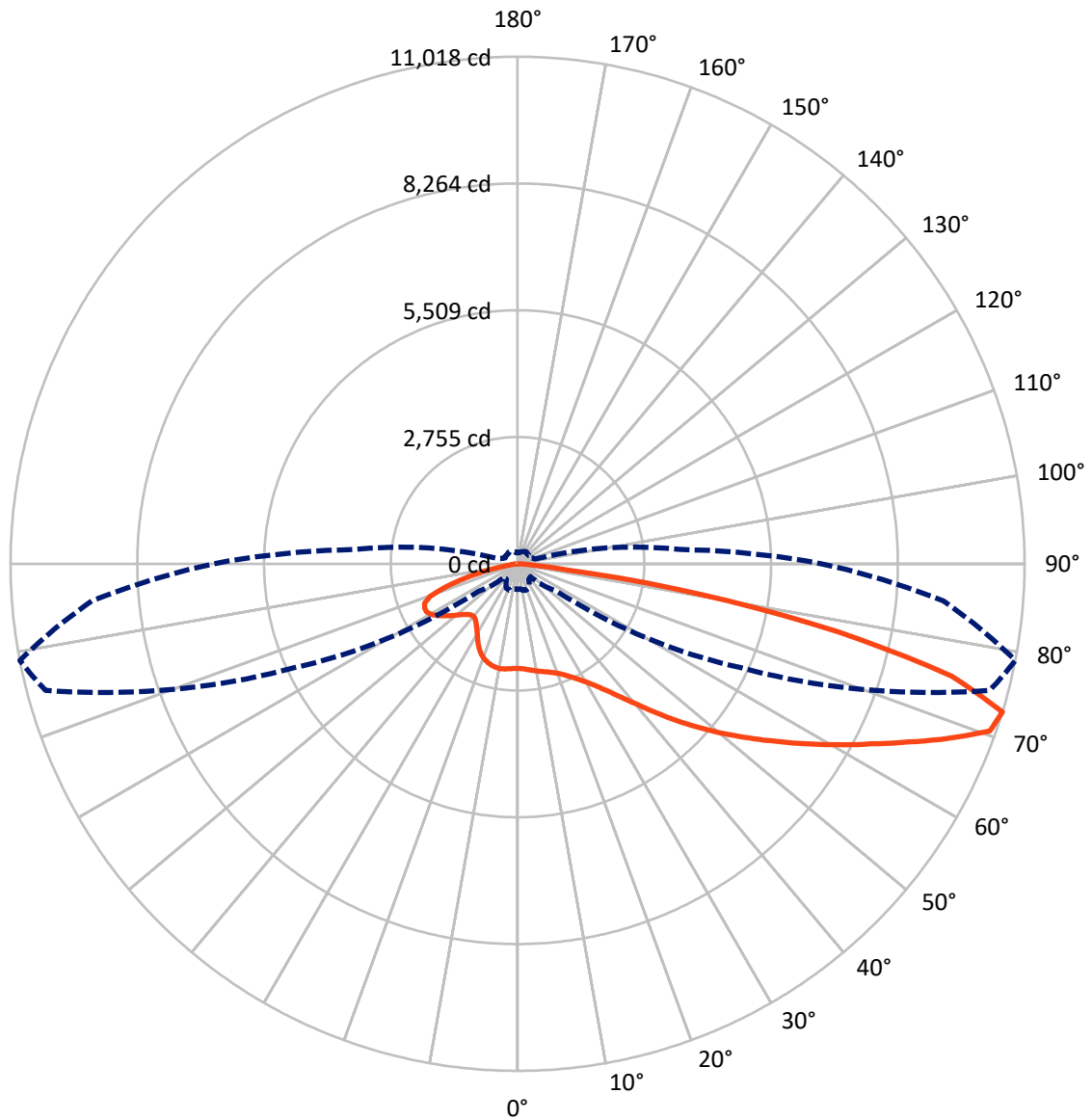
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2492.6	0.0	2492.6
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	8834.6	0.0	8834.6
	% Fixture	78.0	0.0	78.0
Total	Lumens	11327.3	0.0	11327.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.4	1.8
10°-20°	539.6	4.8
20°-30°	870.7	7.7
30°-40°	1306.9	11.5
40°-50°	1853.9	16.4
50°-60°	2341.2	20.7
60°-70°	2377.8	21.0
70°-80°	1620.6	14.3
80°-90°	210.3	1.9
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°	11327.3	100.0
0°-180°	11327.3	100.0

Coefficient of Utilization

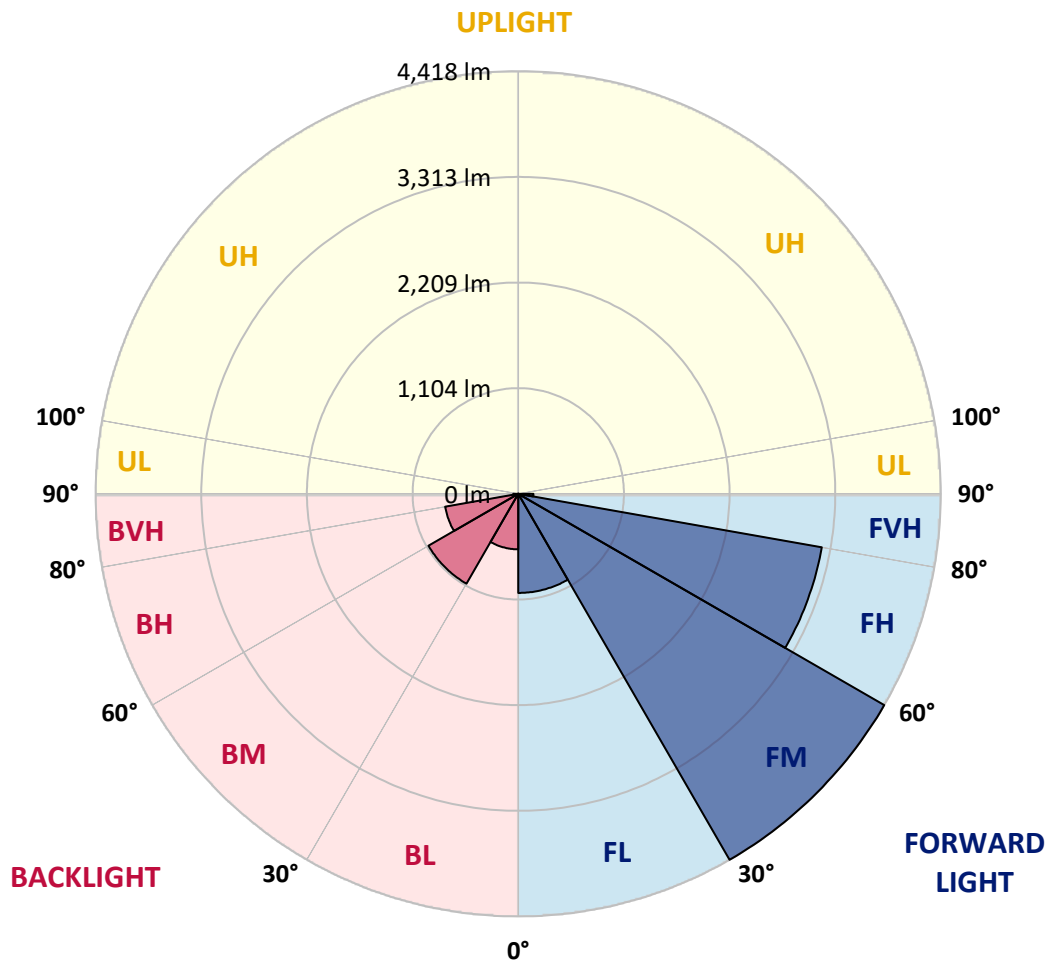


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1036.2	9.1			
FM (30°-60°)	4417.9	39.0			
FH (60°-80°)	3222.2	28.4			G2/5000
FVH (80°-90°)	158.4	1.4			G2/225
BL (0°-30°)	580.6	5.1	B2/1000		
BM (30°-60°)	1084.0	9.6	B2/2500		
BH (60°-80°)	776.1	6.9	B2/1000		G2/1000
BVH (80°-90°)	51.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2273.9	2273.9	2273.9	2273.9	2273.9	2273.9	2273.9	2273.9	2273.9	2273.9	2273.9
2.5°	2275.1	2264.2	2270.9	2268.4	2271.4	2275.1	2276.2	2278.1	2284.0	2283.4	2282.9
5°	2270.3	2259.5	2268.4	2265.5	2273.2	2281.6	2288.8	2295.4	2305.0	2309.2	2303.2
7.5°	2260.0	2252.8	2261.9	2270.9	2285.2	2297.8	2308.0	2323.0	2336.8	2339.2	2343.4
10°	2200.8	2195.3	2216.4	2239.7	2279.2	2313.4	2335.6	2352.9	2368.0	2370.3	2376.3
12.5°	2139.1	2132.4	2155.8	2187.6	2251.7	2313.4	2360.2	2382.9	2396.0	2403.8	2412.8
15°	2128.8	2123.5	2136.6	2164.2	2217.5	2297.2	2376.9	2418.8	2430.3	2439.2	2442.8
17.5°	2178.0	2167.8	2173.2	2182.7	2213.9	2282.3	2390.1	2459.6	2476.9	2486.5	2486.5
20°	2291.8	2277.4	2269.0	2249.9	2244.4	2284.6	2388.9	2508.7	2531.4	2543.4	2546.5
22.5°	2443.4	2433.9	2415.8	2367.3	2314.6	2313.9	2411.6	2571.6	2614.2	2625.5	2618.4
25°	2626.8	2612.4	2589.6	2523.7	2422.5	2372.2	2450.0	2651.9	2723.2	2726.2	2705.3
27.5°	2837.6	2816.1	2784.9	2698.0	2561.5	2463.2	2508.7	2744.2	2848.5	2847.2	2804.1
30°	3059.9	3038.4	3005.4	2899.9	2728.0	2586.0	2590.2	2843.7	2997.0	2990.4	2916.7
32.5°	3222.3	3206.1	3199.5	3118.0	2919.7	2731.0	2683.7	2953.9	3180.4	3174.4	3071.3
35°	3346.9	3326.0	3333.8	3292.4	3128.8	2893.4	2798.1	3085.1	3403.3	3402.7	3274.5
37.5°	3470.3	3451.8	3458.4	3430.9	3322.4	3099.5	2937.8	3245.7	3679.4	3692.7	3520.2
40°	3583.0	3563.2	3589.7	3563.8	3472.8	3318.7	3096.5	3427.3	3999.4	4024.7	3817.3
42.5°	3650.7	3635.2	3678.9	3679.4	3603.4	3504.0	3270.9	3627.4	4369.8	4426.1	4182.8
45°	3674.1	3668.7	3734.6	3748.4	3719.0	3611.2	3427.8	3845.5	4768.8	4869.5	4599.2
47.5°	3648.9	3638.7	3729.8	3780.7	3804.1	3661.5	3557.9	4081.6	5176.2	5323.6	5053.4
50°	3521.9	3502.1	3637.5	3744.8	3828.1	3694.5	3689.1	4354.2	5639.3	5800.6	5510.0
52.5°	3293.6	3278.7	3432.6	3619.0	3775.4	3710.6	3836.5	4652.0	6079.2	6287.7	5977.9
55°	3001.8	2982.0	3151.7	3394.9	3644.2	3705.3	3983.9	4985.1	6598.0	6809.6	6461.4
57.5°	2539.2	2499.8	2714.2	3001.8	3430.3	3698.7	4137.2	5316.4	7125.3	7378.8	6977.3
60°	1864.6	1805.8	2069.0	2409.9	3012.1	3634.5	4327.2	5687.9	7758.0	7986.3	7540.5
62.5°	1085.7	1051.5	1223.5	1541.7	2270.3	3257.0	4433.8	6119.9	8380.0	8619.6	8094.1
65°	843.1	833.4	848.4	873.0	1263.6	2438.6	4104.9	6541.1	9170.9	9338.7	8671.2
67.5°	771.1	763.9	770.5	724.4	641.1	1358.3	3247.5	6647.7	10018.0	10119.9	9176.2
70°	685.4	677.0	698.6	659.1	504.5	617.8	2098.3	6260.7	10692.2	10883.2	9560.3
72.5°	558.4	548.9	599.2	581.2	424.8	396.7	1053.9	5341.0	10621.5	11018.1	9285.3
75°	429.0	423.6	483.5	498.5	346.3	312.2	505.7	3970.1	9347.0	9746.6	8002.5
77.5°	333.1	328.9	359.5	414.0	279.2	242.1	311.0	2518.3	7043.8	7113.9	5514.7
80°	249.9	237.9	266.0	320.5	217.5	176.7	210.9	1468.5	4452.4	4036.0	2400.2
82.5°	156.4	150.4	173.7	213.9	153.3	121.7	137.2	811.3	1784.3	1050.9	463.2
85°	89.3	86.9	94.7	122.2	83.3	70.1	78.5	358.3	326.0	224.1	139.6
87.5°	36.0	34.7	43.2	54.5	30.5	25.7	27.6	86.3	71.9	66.5	46.1
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°	2273.9	2273.9	2273.9	2273.9	2273.9	2273.9	2273.9	2273.9	2273.9	2273.9	2273.9
2.5°	2280.4	2280.4	2272.0	2258.9	2243.9	2234.3	2218.7	2214.5	2198.3	2193.6	2201.4
5°	2308.0	2303.2	2277.4	2240.2	2189.4	2142.7	2091.1	2058.7	2013.2	1997.0	2009.0
7.5°	2342.7	2329.5	2285.2	2203.8	2097.0	1992.2	1883.2	1800.5	1721.4	1693.3	1696.9
10°	2374.5	2356.0	2280.4	2137.8	1953.2	1771.7	1598.0	1476.3	1384.1	1346.3	1354.7
12.5°	2406.3	2372.2	2248.6	2028.2	1749.0	1502.8	1317.5	1222.9	1165.9	1120.4	1135.4
15°	2436.2	2388.2	2199.5	1881.4	1524.9	1275.0	1138.5	1062.9	1017.4	987.4	992.8
17.5°	2471.0	2402.1	2125.8	1695.0	1311.6	1117.5	1006.0	960.4	951.5	947.9	950.3
20°	2519.6	2414.7	2028.8	1486.6	1154.6	991.6	934.1	929.9	929.3	927.5	933.5
22.5°	2571.6	2429.7	1900.6	1297.2	1021.0	913.2	902.9	894.5	889.2	888.6	895.1
25°	2633.3	2434.4	1739.9	1142.1	907.1	876.0	864.0	851.5	847.8	847.8	851.5
27.5°	2693.3	2418.3	1553.1	1007.2	843.1	841.8	826.3	822.0	821.4	823.3	828.1
30°	2753.1	2387.6	1367.4	882.5	805.9	805.9	800.5	803.5	805.9	811.9	816.1
32.5°	2834.0	2355.3	1212.2	790.3	773.6	767.5	773.0	778.9	781.4	789.1	795.7
35°	2952.7	2332.6	1088.7	739.9	739.9	732.2	735.1	734.0	728.6	725.0	733.4
37.5°	3109.6	2331.4	986.9	716.6	711.9	710.6	711.2	703.5	682.4	657.3	657.8
40°	3298.4	2363.8	908.4	700.4	696.8	704.1	700.4	679.5	622.0	578.2	577.0
42.5°	3551.8	2456.0	858.0	680.7	691.5	700.4	686.0	613.6	574.6	545.2	544.1
45°	3850.2	2605.8	832.2	659.7	681.2	692.1	622.6	590.8	559.6	524.3	521.8
47.5°	4188.2	2794.6	826.3	639.9	658.5	665.1	595.5	581.2	545.8	507.5	504.5
50°	4556.1	3018.0	842.4	616.5	625.6	602.8	586.6	573.4	536.9	499.1	494.9
52.5°	4936.5	3264.3	874.7	584.8	592.6	567.4	583.0	571.6	531.5	480.5	476.9
55°	5310.4	3512.4	905.9	547.7	559.0	535.7	572.8	564.5	506.9	449.4	446.4
57.5°	5690.3	3759.2	936.5	514.7	526.6	505.1	556.7	545.2	479.3	420.7	419.4
60°	6085.1	3998.8	950.9	483.0	491.3	476.9	532.1	512.3	448.1	391.2	389.5
62.5°	6454.8	4198.4	927.5	451.2	456.5	450.6	499.7	473.3	417.0	358.3	357.7
65°	6825.7	4317.0	855.6	420.0	421.2	418.2	454.2	431.4	380.5	329.5	326.0
67.5°	7161.9	4383.5	741.2	386.4	383.5	382.2	411.6	385.9	345.1	300.7	297.1
70°	7233.1	4214.6	566.2	347.0	347.0	343.9	364.9	338.6	306.2	270.2	269.1
72.5°	6606.4	3545.3	402.0	302.0	306.8	300.7	318.2	296.0	266.6	242.6	235.4
75°	5327.2	2599.8	292.4	255.8	264.2	254.1	270.2	254.6	229.5	228.9	206.1
77.5°	3660.3	1607.6	212.1	210.9	216.9	203.7	222.3	213.9	191.2	180.9	169.5
80°	1562.0	641.1	154.6	163.0	163.0	151.0	172.6	175.0	155.2	150.4	150.4
82.5°	311.0	182.1	108.4	112.0	105.5	101.9	122.2	135.4	187.0	207.9	208.5
85°	93.5	67.1	65.3	61.1	53.9	54.5	71.9	136.0	167.8	95.8	82.7
87.5°	25.7	16.8	17.4	13.7	11.4	15.0	24.6	103.0	56.3	24.0	20.4
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)