

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: P884941

Luminaire Tested: **NAV-SB6A-727-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884941
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-SB6A-727-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 350mA 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: 24388 lumens
Efficiency: N/A
Efficacy: 142.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

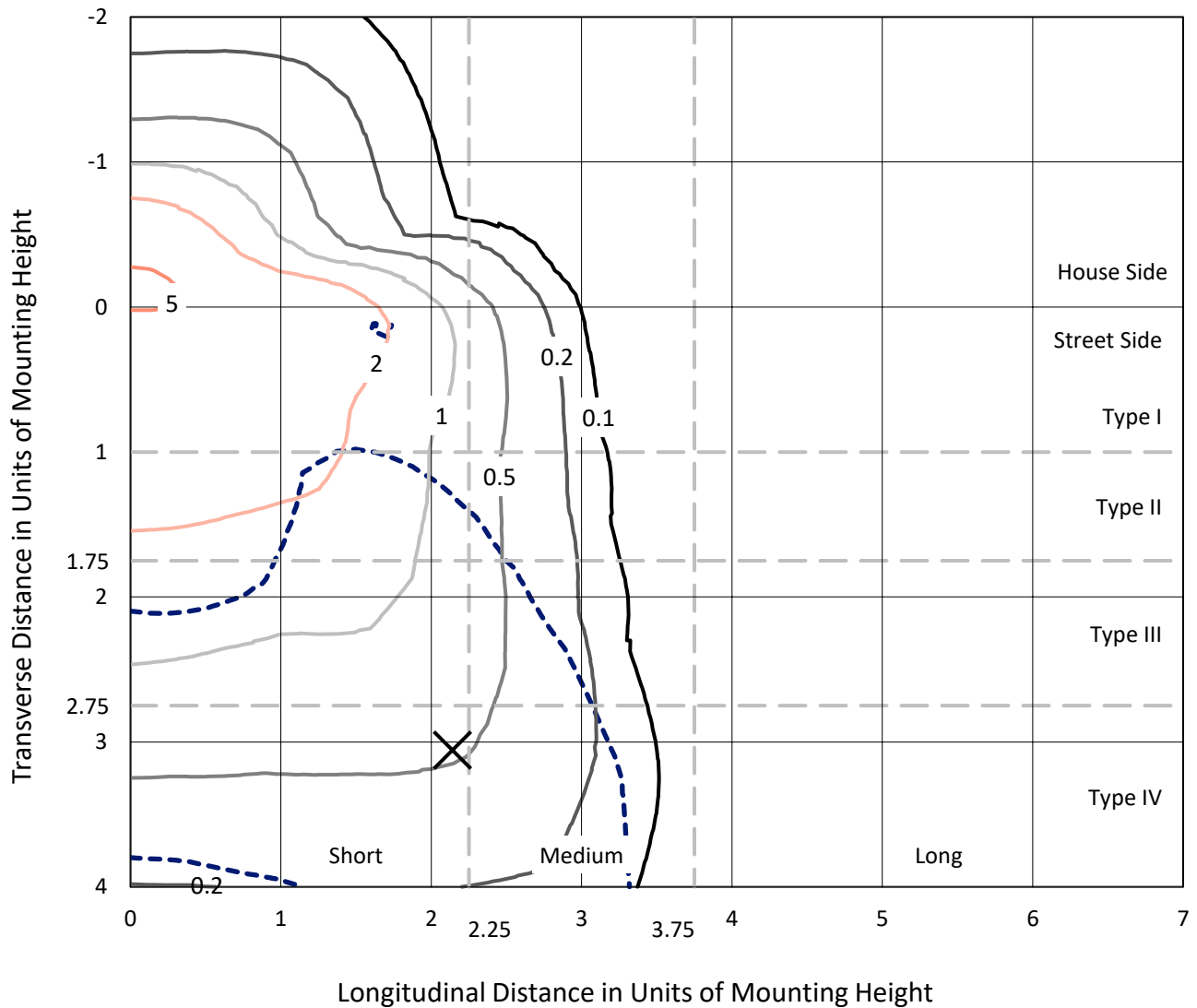
Input Watts (W): 170.9
Input Voltage (V): 120.0
Input Current (Ain): 1.434
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

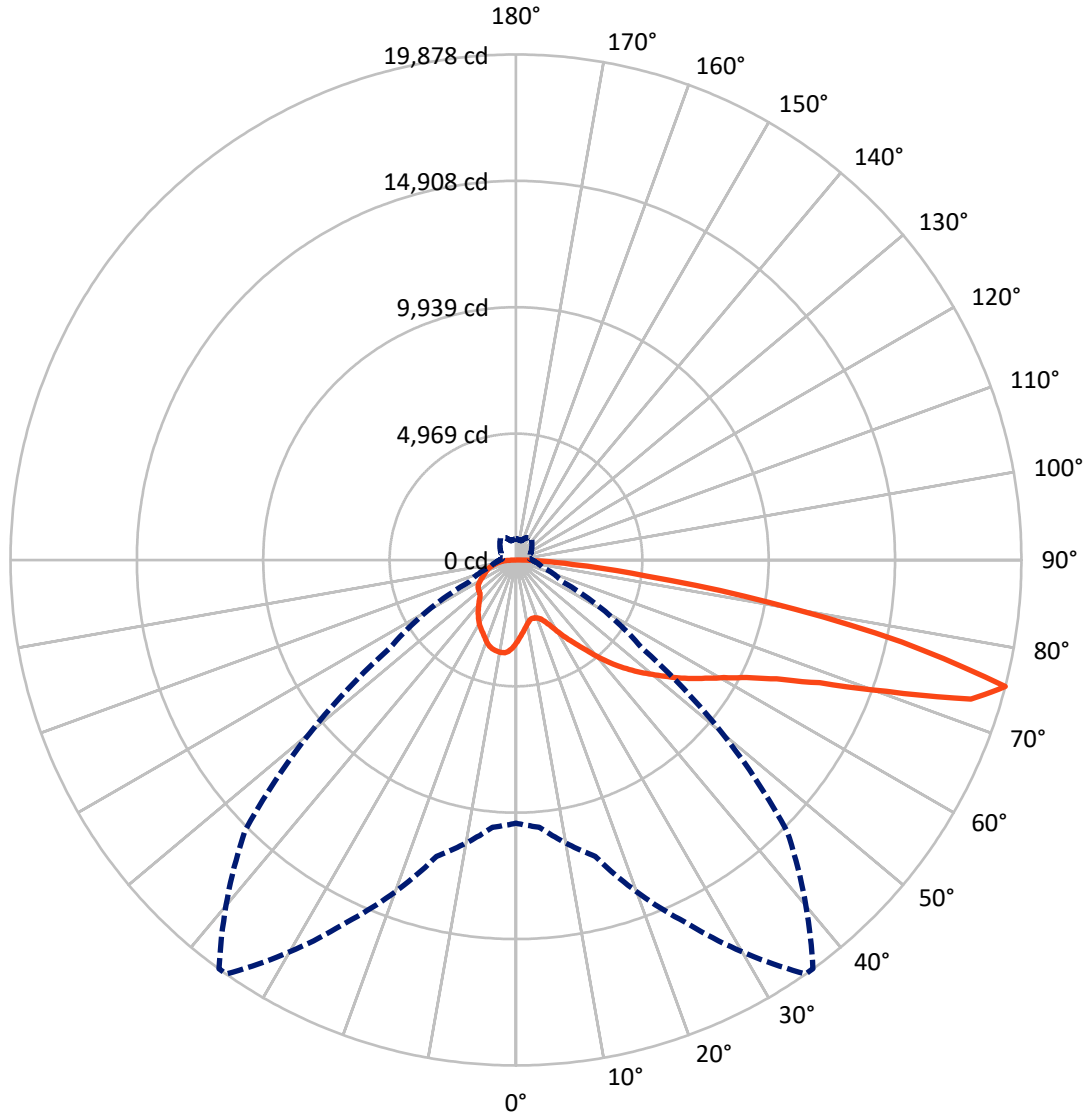
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	5803.7	0.0	5803.7
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	18584.3	0.0	18584.3
	% Fixture	76.2	0.0	76.2
Total	Lumens	24388.0	0.0	24388.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.7	1.3
10°-20°	887.5	3.6
20°-30°	1490.4	6.1
30°-40°	2316.3	9.5
40°-50°	3438.0	14.1
50°-60°	4746.3	19.5
60°-70°	5758.4	23.6
70°-80°	4758.9	19.5
80°-90°	684.5	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°	24388.0	100.0
0°-180°	24388.0	100.0



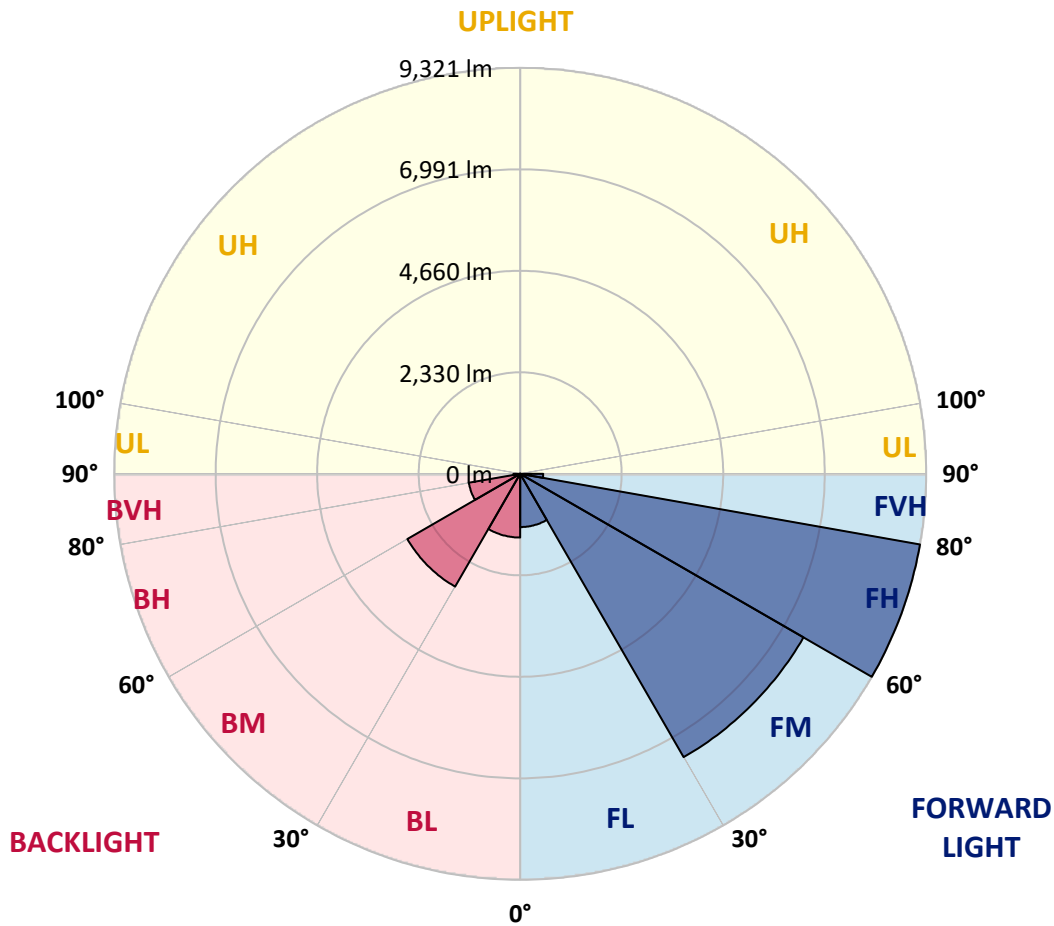
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1223.0	5.0			
FM (30°-60°)	7510.2	30.8			
FH (60°-80°)	9320.7	38.2			G4/12000
FVH (80°-90°)	530.3	2.2			G4/750
BL (0°-30°)	1462.6	6.0	B3/2500		
BM (30°-60°)	2990.4	12.3	B3/5000		
BH (60°-80°)	1196.6	4.9	B3/2500		G3/2500
BVH (80°-90°)	154.1	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	3249.9	3249.9	3249.9	3249.9	3249.9	3249.9	3249.9	3249.9	3249.9	3249.9	3249.9
2.5°	2996.7	3015.2	3023.1	3019.1	3038.9	3036.3	3064.0	3098.2	3145.7	3191.9	3259.1
5°	2766.0	2785.8	2802.9	2818.7	2857.0	2868.8	2912.4	2978.3	3065.3	3153.6	3264.4
7.5°	2551.1	2568.3	2594.6	2623.6	2688.2	2700.1	2772.6	2875.4	2996.7	3125.9	3278.9
10°	2375.8	2392.9	2420.6	2453.5	2534.0	2548.5	2640.8	2777.9	2936.1	3099.6	3294.7
12.5°	2300.6	2305.9	2321.7	2354.7	2424.5	2433.8	2535.3	2692.2	2876.8	3079.8	3318.4
15°	2296.7	2307.2	2308.5	2325.7	2383.7	2387.6	2481.2	2636.8	2839.8	3075.8	3354.0
17.5°	2336.2	2344.1	2332.3	2342.8	2391.6	2398.2	2472.0	2610.4	2828.0	3093.0	3414.7
20°	2441.7	2448.3	2412.7	2398.2	2433.8	2439.0	2511.6	2627.6	2839.8	3128.6	3497.7
22.5°	2665.8	2669.8	2582.8	2523.4	2526.1	2528.7	2592.0	2697.5	2886.0	3193.2	3603.2
25°	3015.2	3012.6	2874.1	2759.4	2693.5	2679.0	2721.2	2810.8	2963.8	3278.9	3739.0
27.5°	3423.9	3404.1	3265.7	3094.3	2950.6	2929.5	2920.3	2958.5	3074.5	3392.3	3905.1
30°	3885.3	3866.9	3717.9	3493.8	3294.7	3260.4	3173.4	3153.6	3239.3	3546.5	4135.8
32.5°	4391.6	4379.7	4201.8	3930.2	3663.8	3624.3	3477.9	3425.2	3492.5	3779.9	4457.5
35°	4816.1	4805.6	4657.9	4378.4	4052.8	4004.0	3855.0	3795.7	3830.0	4079.1	4878.1
37.5°	5199.8	5194.5	5067.9	4847.8	4511.6	4452.3	4284.8	4265.0	4258.4	4473.3	5388.3
40°	5555.8	5542.6	5410.7	5294.7	5045.5	4991.5	4843.8	4826.7	4776.6	4958.5	5965.8
42.5°	5950.0	5915.7	5724.5	5670.5	5603.2	5558.4	5470.1	5472.7	5361.9	5505.7	6577.5
45°	6271.6	6251.9	6055.4	6023.8	6096.3	6077.8	6154.3	6174.1	5959.2	6079.2	7213.0
47.5°	6617.1	6598.6	6432.5	6410.1	6606.5	6611.8	6882.1	6888.7	6541.9	6675.1	7849.8
50°	7042.9	7016.5	6851.7	6879.4	7099.6	7119.4	7613.8	7569.0	7078.5	7280.2	8481.3
52.5°	7323.7	7339.6	7304.0	7348.8	7649.4	7667.8	8333.6	8218.9	7609.8	7877.5	9100.9
55°	7530.7	7562.4	7673.1	7775.9	8229.5	8247.9	9012.6	8837.3	8050.2	8431.2	9683.7
57.5°	7797.0	7752.2	7959.2	8159.6	8780.6	8829.4	9673.1	9433.2	8440.4	8908.5	10083.2
60°	8179.4	8147.7	8308.6	8605.2	9397.6	9475.4	10371.9	9969.8	8726.5	9286.8	10160.9
62.5°	8954.6	8875.5	8900.5	9162.9	10175.4	10278.3	11160.3	10437.8	8868.9	9434.5	9744.3
65°	10113.5	9977.7	9851.1	10033.1	11271.0	11372.6	12050.2	10805.6	8816.2	9148.4	8638.2
67.5°	11573.0	11438.5	11282.9	11454.3	12884.8	12965.2	13148.4	11012.6	8400.9	8046.2	6683.0
70°	12776.7	12726.6	12912.4	13617.8	15462.2	15464.9	14556.5	10841.2	7263.1	5704.7	3866.9
72.5°	12617.1	12586.8	13566.4	15747.0	18710.8	18640.9	15889.4	9543.9	4892.6	2573.5	1448.9
75°	10350.8	10547.2	12064.7	15708.8	19877.6	19868.3	15073.3	6067.3	2023.8	1066.6	748.9
77.5°	5550.5	5861.6	7832.6	11598.0	15517.6	15751.0	10597.3	2122.6	868.8	682.9	518.1
80°	1810.2	2081.8	3122.0	5905.1	10083.2	10039.6	4541.9	833.2	594.6	483.9	358.6
82.5°	768.6	800.3	1394.9	2788.4	5174.7	5094.3	1446.3	478.6	417.9	330.9	221.5
85°	300.6	336.2	615.7	1289.4	2241.3	2192.5	522.1	237.3	267.6	216.2	131.8
87.5°	98.9	120.0	220.2	441.7	697.4	672.4	127.9	81.7	116.0	98.9	47.5
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°	3249.9	3249.9	3249.9	3249.9	3249.9	3249.9	3249.9	3249.9	3249.9	3249.9	3249.9
2.5°	3277.6	3298.6	3323.7	3360.6	3392.3	3418.6	3446.3	3463.4	3470.0	3489.8	3488.5
5°	3301.3	3347.4	3409.4	3470.0	3529.4	3565.0	3596.6	3612.4	3626.9	3637.5	3640.1
7.5°	3340.8	3400.2	3497.7	3576.8	3626.9	3655.9	3677.0	3671.8	3677.0	3679.7	3683.6
10°	3375.1	3458.2	3574.2	3649.3	3687.6	3688.9	3683.6	3665.2	3655.9	3657.3	3659.9
12.5°	3416.0	3508.3	3633.5	3696.8	3707.4	3678.3	3655.9	3624.3	3612.4	3607.2	3604.5
15°	3471.4	3576.8	3698.1	3721.9	3695.5	3658.6	3620.3	3568.9	3542.6	3521.5	3528.0
17.5°	3538.6	3654.6	3748.2	3731.1	3674.4	3613.7	3551.8	3474.0	3419.9	3397.5	3398.8
20°	3632.2	3736.4	3786.5	3711.3	3625.6	3533.3	3427.9	3332.9	3282.8	3260.4	3257.8
22.5°	3745.6	3845.8	3823.4	3677.0	3555.7	3408.1	3276.2	3206.4	3181.3	3165.5	3168.1
25°	3881.4	3967.1	3849.7	3626.9	3441.0	3242.0	3140.4	3118.0	3106.2	3094.3	3094.3
27.5°	4058.0	4104.2	3869.5	3553.1	3261.7	3065.3	3028.4	3032.3	3028.4	3008.6	3012.6
30°	4291.4	4282.2	3888.0	3433.1	3056.1	2905.8	2908.4	2925.5	2928.2	2915.0	2921.6
32.5°	4598.6	4505.0	3897.2	3277.6	2859.6	2766.0	2768.6	2787.1	2800.3	2777.9	2788.4
35°	4970.4	4764.7	3882.7	3082.4	2708.0	2632.9	2613.1	2618.4	2622.3	2601.2	2615.7
37.5°	5404.1	5056.1	3818.1	2866.2	2582.8	2502.3	2460.1	2424.5	2403.5	2383.7	2396.9
40°	5880.1	5373.8	3699.4	2655.3	2443.0	2363.9	2300.6	2233.4	2162.2	2135.8	2147.7
42.5°	6378.4	5700.8	3555.7	2453.5	2282.2	2217.6	2150.3	2052.8	1946.0	1891.9	1898.5
45°	6895.3	6035.7	3414.7	2254.5	2117.4	2089.7	2011.9	1894.5	1778.5	1710.0	1704.7
47.5°	7401.5	6352.1	3207.7	2054.1	1963.1	1993.4	1932.8	1824.7	1695.5	1587.4	1575.5
50°	7885.4	6648.7	2868.8	1851.0	1837.9	1964.4	1906.4	1750.8	1603.2	1464.7	1452.9
52.5°	8365.3	6888.7	2435.1	1666.5	1770.6	1956.5	1872.1	1700.7	1520.1	1375.1	1359.3
55°	8772.7	7012.6	2017.2	1508.3	1673.1	1889.3	1831.3	1641.4	1402.8	1248.5	1235.3
57.5°	9004.7	6912.4	1669.1	1352.7	1538.6	1778.5	1761.4	1514.8	1263.0	1144.4	1128.6
60°	8904.5	6506.3	1384.3	1216.9	1410.7	1658.6	1640.1	1389.6	1156.2	1044.2	1028.4
62.5°	8352.1	5732.4	1158.9	1098.2	1294.7	1535.9	1518.8	1293.4	1074.5	966.4	949.3
65°	7239.4	4663.2	983.5	999.4	1177.3	1388.3	1413.3	1212.9	1009.9	904.4	887.3
67.5°	5521.5	3377.8	846.4	913.7	1062.6	1243.3	1315.8	1154.9	955.8	855.6	839.8
70°	3147.0	1918.3	730.4	830.6	961.1	1108.8	1240.6	1108.8	897.8	814.8	804.2
72.5°	1193.2	880.7	631.5	747.5	863.6	995.4	1157.6	1036.3	830.6	768.6	758.1
75°	636.8	536.6	531.3	650.0	751.5	884.6	1053.4	965.1	780.5	812.1	838.5
77.5°	433.8	379.7	444.3	556.4	628.9	762.0	942.7	857.0	676.3	673.7	621.0
80°	300.6	269.0	361.2	448.3	486.5	640.7	822.7	735.7	551.1	514.2	491.8
82.5°	180.6	175.3	270.3	334.9	344.1	494.4	681.6	617.0	450.9	392.9	395.5
85°	98.9	104.2	172.7	196.4	200.4	345.4	534.0	477.3	346.7	291.4	294.0
87.5°	27.7	35.6	63.3	77.8	96.2	179.3	317.7	283.5	174.0	121.3	121.3
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)