

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: P884079

Luminaire Tested: **NAV-SB4D-722-U-T3**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884079
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-SB4D-722-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32885 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

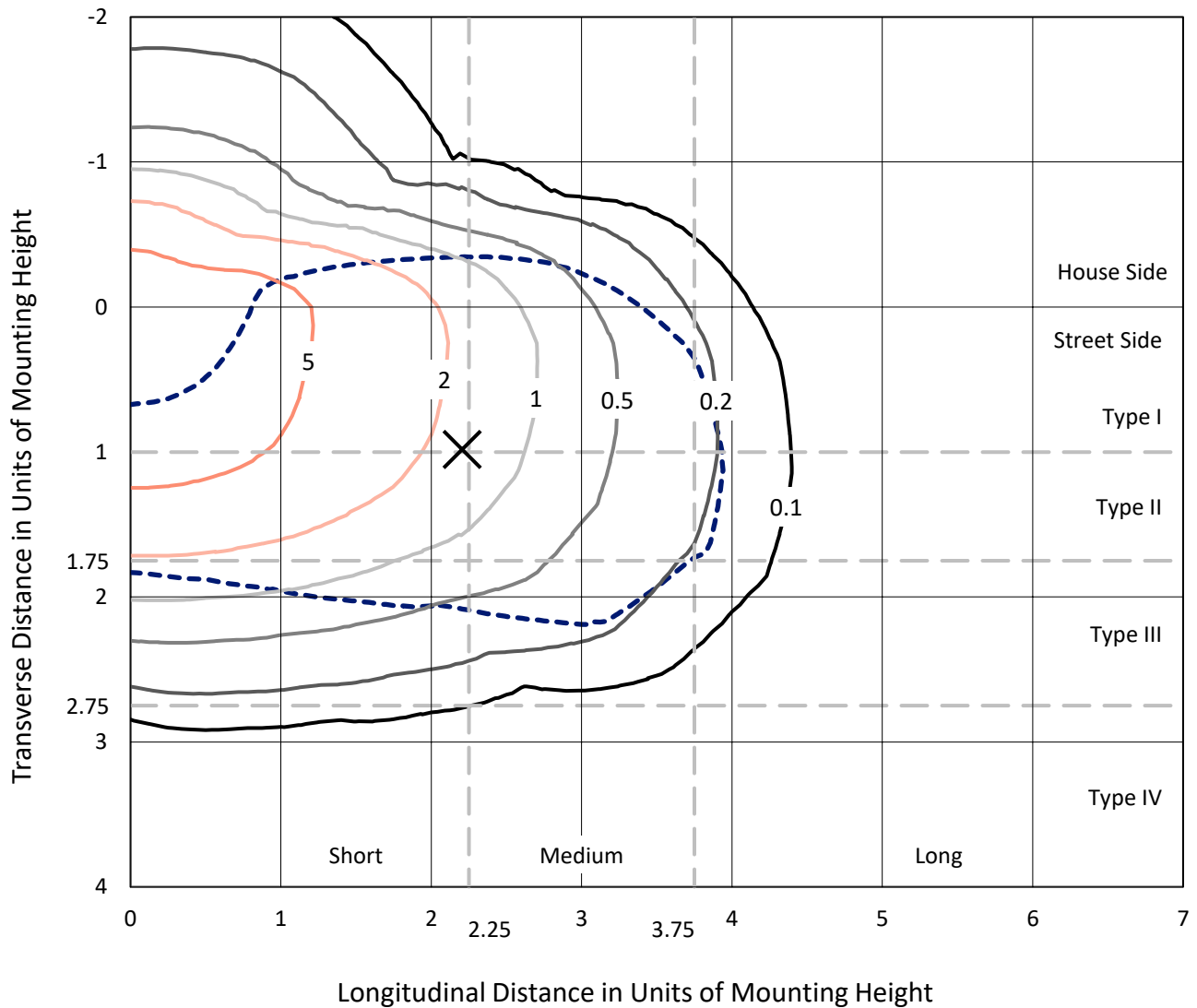
Input Watts (W): 293.6
Input Voltage (V): 120.0
Input Current (Ain): 2.469
Voltage Rise (V): NR
Power Factor: 0.999
Total Harmonic Distortion (THDi): 3.108
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

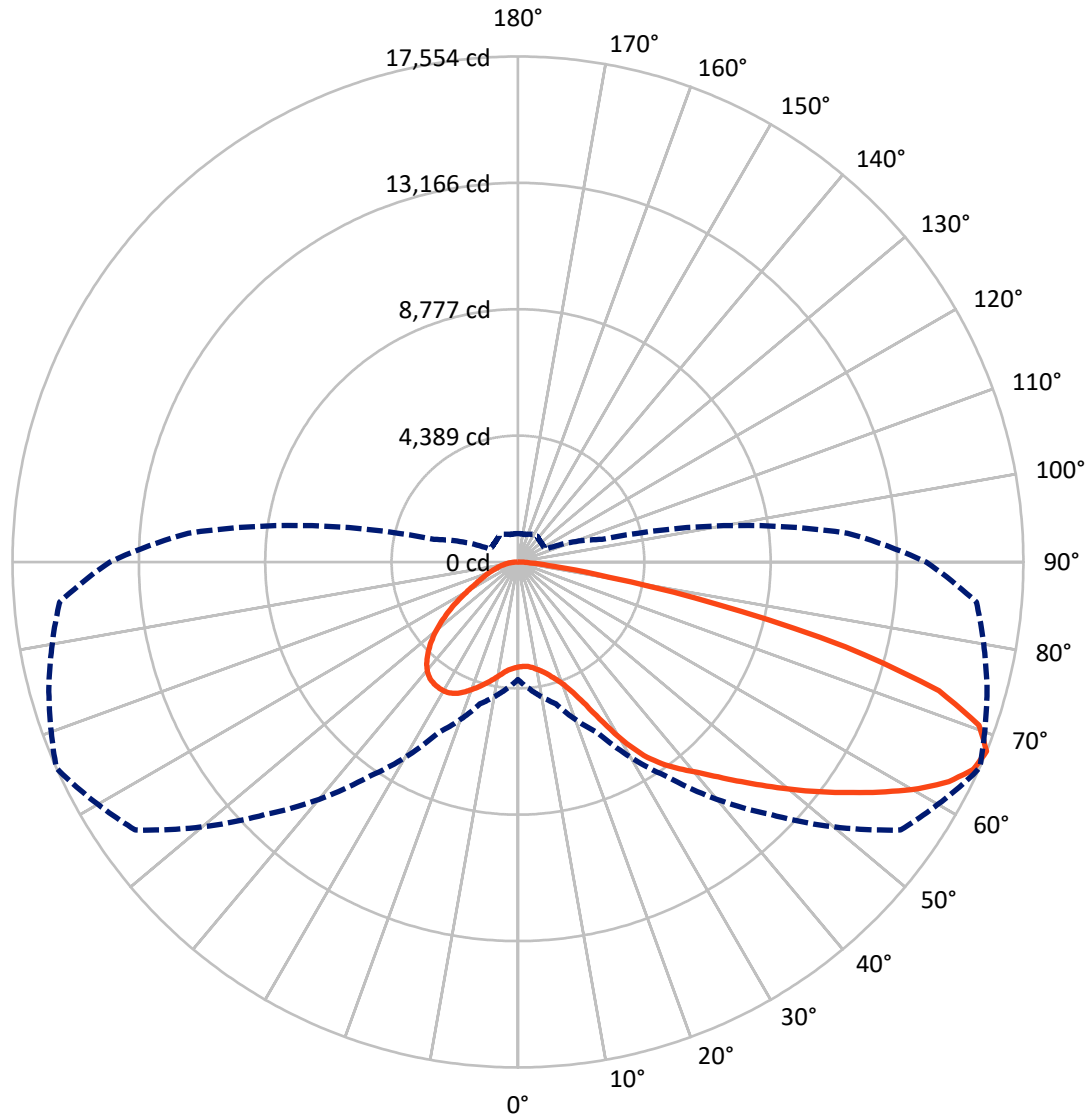
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8176.8	0.0	8176.8
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	24708.2	0.0	24708.2
	% Fixture	75.1	0.0	75.1
Total	Lumens	32885.0	0.0	32885.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.6	1.1
10°-20°	1194.8	3.6
20°-30°	2302.8	7.0
30°-40°	4037.7	12.3
40°-50°	6002.7	18.3
50°-60°	7609.1	23.1
60°-70°	7445.3	22.6
70°-80°	3551.5	10.8
80°-90°	379.6	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°	32885.0	100.0
0°-180°	32885.0	100.0

Coefficient of Utilization



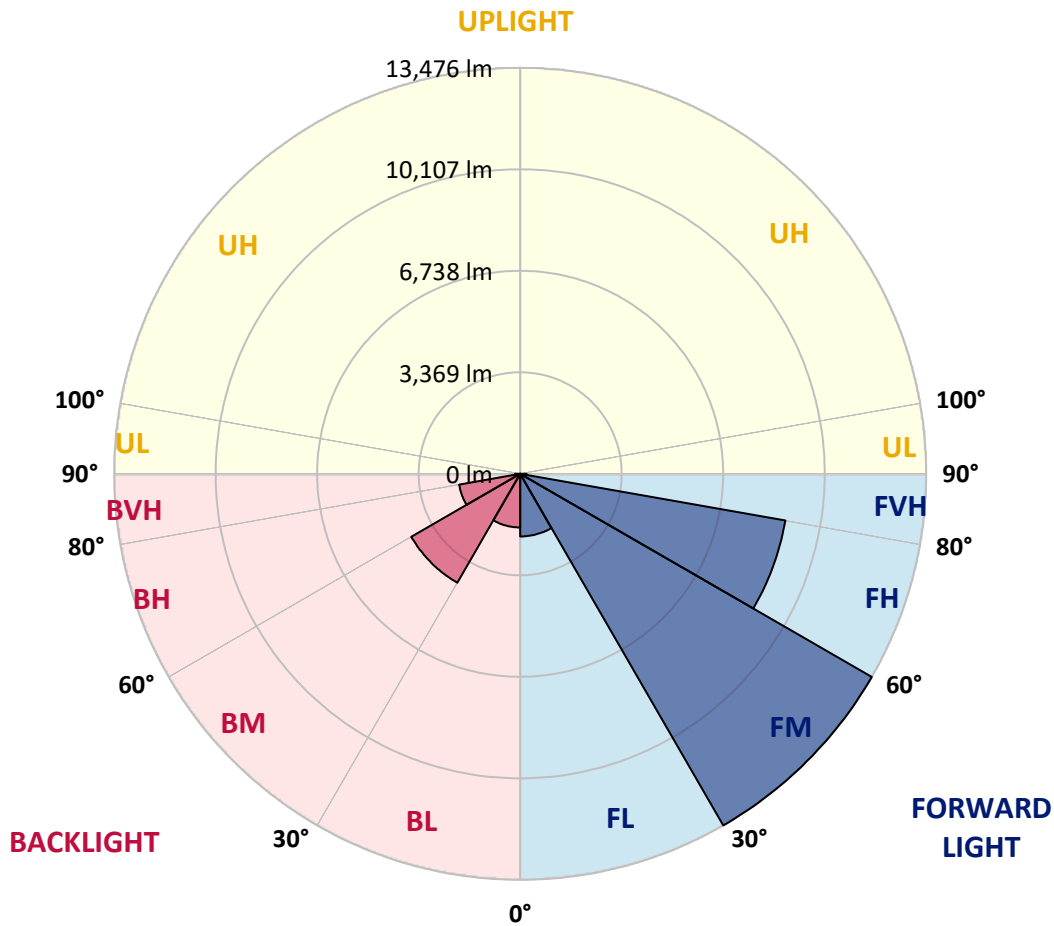
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2078.0	6.3			
FM (30°-60°)	13476.0	41.0			
FH (60°-80°)	8939.0	27.2			G4/12000
FVH (80°-90°)	215.2	0.7			G2/225
BL (0°-30°)	1781.2	5.4	B3/2500		
BM (30°-60°)	4173.5	12.7	B3/5000		
BH (60°-80°)	2057.7	6.3	B3/2500		G3/2500
BVH (80°-90°)	164.4	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3647.4	3647.4	3647.4	3647.4	3647.4	3647.4	3647.4	3647.4	3647.4	3647.4	3647.4
2.5°	3609.4	3630.1	3624.9	3616.3	3614.6	3618.0	3623.2	3628.4	3626.6	3635.3	3649.1
5°	3599.0	3619.7	3618.0	3618.0	3624.9	3638.7	3647.4	3656.0	3647.4	3657.7	3676.8
7.5°	3605.9	3621.5	3628.4	3635.3	3652.6	3678.5	3699.2	3718.2	3707.9	3719.9	3744.1
10°	3694.0	3706.1	3713.0	3713.0	3725.1	3754.5	3775.2	3809.8	3801.2	3820.2	3851.3
12.5°	3854.7	3866.8	3866.8	3859.9	3868.5	3887.5	3894.5	3932.5	3916.9	3948.0	3979.1
15°	4051.7	4075.9	4056.9	4044.8	4048.2	4067.2	4065.5	4094.9	4079.3	4105.2	4132.9
17.5°	4269.4	4300.5	4269.4	4267.7	4260.7	4281.5	4283.2	4309.1	4281.5	4300.5	4319.5
20°	4526.8	4570.0	4544.1	4552.7	4537.2	4545.8	4554.5	4592.5	4549.3	4563.1	4557.9
22.5°	4889.7	4941.5	4913.9	4946.7	4936.3	4929.4	4927.7	4995.1	4927.7	4932.9	4882.8
25°	5418.4	5480.6	5432.2	5477.1	5477.1	5499.6	5525.5	5611.9	5499.6	5466.8	5337.2
27.5°	6199.3	6261.5	6166.5	6194.2	6185.5	6240.8	6213.2	6427.4	6306.5	6252.9	5992.0
30°	7139.3	7249.8	7070.1	7063.2	7054.6	7142.7	7182.5	7324.1	7201.5	7147.9	6833.4
32.5°	8155.2	8271.0	8056.7	7994.5	7961.7	8015.3	7982.4	8096.5	8011.8	7928.9	7540.1
35°	9229.9	9343.9	9140.1	9019.1	8887.8	8775.5	8658.0	8687.4	8607.9	8481.8	8079.2
37.5°	10245.8	10454.9	10238.9	10109.3	9867.5	9648.0	9319.7	9183.2	9108.9	8993.2	8587.2
40°	11280.8	11400.0	11235.9	11125.3	10862.7	10518.8	9993.6	9705.0	9604.8	9492.5	9148.7
42.5°	12042.8	12156.8	12068.7	11992.6	11787.0	11387.9	10708.9	10347.8	10202.6	10076.5	9784.5
45°	12647.5	12732.1	12676.9	12704.5	12616.4	12229.4	11450.1	11037.2	10886.9	10733.1	10503.3
47.5°	12891.1	12980.9	13069.1	13233.2	13383.5	13098.4	12246.6	11783.6	11624.6	11467.4	11241.1
50°	12863.5	12955.0	13210.7	13559.8	14026.3	13931.2	13086.3	12578.4	12431.5	12251.8	12042.8
52.5°	12642.3	12746.0	13074.2	13654.8	14397.7	14555.0	13941.6	13399.1	13260.8	13046.6	12837.5
55°	12061.8	12124.0	12616.4	13438.8	14485.9	14990.4	14779.6	14273.3	14135.1	13836.2	13608.1
57.5°	10985.3	11075.2	11792.2	12856.5	14264.7	15285.8	15515.6	15192.5	15059.5	14629.3	14390.8
60°	9580.6	9724.0	10544.7	11878.6	13701.4	15284.1	16184.3	16096.2	15985.6	15410.2	15161.4
62.5°	7991.1	8156.9	8946.5	10496.4	12716.6	14850.4	16602.4	16852.9	16795.9	16130.7	15812.8
65°	6137.1	6251.2	7037.3	8708.1	11184.0	13919.1	16650.8	17369.6	17379.9	16678.4	16153.2
67.5°	4086.2	4414.5	5097.0	6534.5	9131.4	12396.9	16225.7	17454.2	17554.4	16866.8	15982.1
70°	1993.9	2425.8	3094.5	4246.9	6534.5	10062.7	15114.8	16759.6	16982.5	16317.3	14962.7
72.5°	827.6	967.6	1332.1	2095.8	3751.0	6790.2	12882.5	14876.3	15289.3	14458.2	12580.1
75°	558.1	604.7	762.0	1074.7	1708.8	3348.5	9290.4	11092.5	11757.7	10919.7	8925.8
77.5°	430.2	459.6	554.6	751.6	1015.9	1266.5	4972.6	6684.8	7028.7	6506.9	4644.3
80°	338.6	361.1	414.7	547.7	720.5	677.3	1695.0	3028.8	3227.5	2707.5	1492.8
82.5°	293.7	302.4	297.2	371.5	478.6	395.7	556.4	1117.9	1233.6	895.0	487.2
85°	212.5	236.7	247.1	229.8	254.0	200.4	228.1	395.7	435.4	388.8	274.7
87.5°	86.4	127.9	157.2	148.6	93.3	57.0	70.8	115.8	133.0	145.1	89.8
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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 CATALOG NUMBER: NAV-SB4D-722-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3647.4	3647.4	3647.4	3647.4	3647.4	3647.4	3647.4	3647.4	3647.4	3647.4	3647.4
2.5°	3650.8	3662.9	3671.6	3681.9	3688.8	3699.2	3719.9	3732.0	3733.8	3742.4	3740.7
5°	3683.7	3700.9	3719.9	3747.6	3778.7	3804.6	3844.4	3872.0	3882.4	3891.0	3889.3
7.5°	3754.5	3778.7	3813.2	3861.6	3906.6	3941.1	3989.5	4022.3	4055.1	4067.2	4069.0
10°	3859.9	3894.5	3944.6	4010.2	4058.6	4103.5	4153.6	4181.3	4214.1	4227.9	4234.8
12.5°	3991.2	4027.5	4093.2	4184.7	4229.6	4260.7	4278.0	4271.1	4278.0	4290.1	4293.6
15°	4141.5	4181.3	4255.6	4354.1	4385.2	4357.5	4319.5	4284.9	4279.8	4283.2	4295.3
17.5°	4319.5	4348.9	4435.3	4518.2	4495.7	4381.7	4298.8	4243.5	4215.8	4207.2	4219.3
20°	4568.3	4568.3	4639.1	4691.0	4540.7	4347.1	4217.6	4127.7	4070.7	4046.5	4041.3
22.5°	4870.7	4843.0	4887.9	4851.7	4532.0	4250.4	4070.7	3915.2	3828.8	3794.2	3789.1
25°	5254.2	5221.4	5209.3	4984.7	4469.8	4096.6	3804.6	3616.3	3540.3	3521.3	3524.7
27.5°	5833.0	5750.1	5592.9	5057.3	4355.8	3854.7	3493.6	3319.1	3275.9	3277.6	3282.8
30°	6603.6	6437.8	6052.5	5069.4	4169.2	3512.6	3175.7	3051.3	3030.6	3039.2	3068.6
32.5°	7317.2	7160.0	6522.4	5014.1	3882.4	3177.4	2890.6	2807.7	2776.6	2786.9	2800.8
35°	7877.0	7833.8	6957.8	4936.3	3529.9	2863.0	2634.9	2564.1	2503.6	2489.8	2500.1
37.5°	8405.7	8388.5	7284.4	4827.5	3180.9	2640.1	2429.3	2336.0	2247.9	2199.5	2201.2
40°	8986.3	8969.0	7498.6	4659.9	2871.6	2446.6	2244.4	2121.7	2012.9	1924.8	1933.4
42.5°	9639.4	9537.4	7600.6	4419.7	2609.0	2282.4	2094.1	1928.2	1784.8	1703.6	1708.8
45°	10353.0	10123.2	7598.9	4113.9	2387.8	2132.1	1933.4	1698.4	1565.4	1489.4	1485.9
47.5°	11109.7	10683.0	7505.6	3775.2	2173.6	1966.2	1684.6	1504.9	1416.8	1370.1	1359.8
50°	11890.7	11206.5	7346.6	3386.5	1954.1	1777.9	1529.1	1406.4	1339.0	1295.8	1280.3
52.5°	12625.0	11681.6	7154.8	2945.9	1731.3	1594.8	1460.0	1365.0	1294.1	1245.7	1225.0
55°	13307.5	12091.1	6883.5	2494.9	1549.8	1472.1	1427.2	1347.7	1266.5	1209.5	1187.0
57.5°	13914.0	12357.2	6415.3	2071.6	1420.2	1387.4	1392.6	1318.3	1225.0	1176.6	1145.5
60°	14418.5	12552.5	5722.5	1679.4	1314.9	1304.5	1339.0	1263.0	1154.2	1098.9	1074.7
62.5°	14720.8	12549.0	4872.4	1375.3	1225.0	1228.5	1268.2	1193.9	1083.3	1031.5	1015.9
65°	14694.9	12241.4	3939.4	1176.6	1138.6	1142.1	1193.9	1117.9	1024.6	993.5	991.8
67.5°	14174.9	11491.6	3021.9	1047.0	1043.6	1059.1	1119.6	1066.1	988.3	984.8	990.0
70°	12766.7	9934.8	2177.0	943.4	945.1	967.6	1047.0	1033.2	969.3	976.2	974.5
72.5°	10237.2	7574.7	1461.7	834.5	836.3	872.5	977.9	1007.3	950.3	1041.9	1055.7
75°	6817.9	4723.8	939.9	718.8	720.5	767.1	917.5	957.2	898.5	1038.4	1047.0
77.5°	3275.9	2123.5	680.8	604.7	604.7	647.9	793.1	857.0	765.4	806.9	739.5
80°	1131.7	798.2	535.6	487.2	476.9	506.2	668.7	743.0	660.0	608.2	570.2
82.5°	445.8	414.7	430.2	378.4	343.8	362.8	520.1	613.4	485.5	438.9	437.1
85°	255.7	269.5	304.1	250.5	198.7	222.9	381.8	440.6	366.3	323.1	330.0
87.5°	69.1	95.0	140.0	129.6	89.8	95.0	181.4	243.6	210.8	162.4	167.6
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)