

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: P884611

Luminaire Tested: **NAV-SB5C-730-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884611
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-SB5C-730-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 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: 36974 lumens
Efficiency: N/A
Efficacy: 148.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

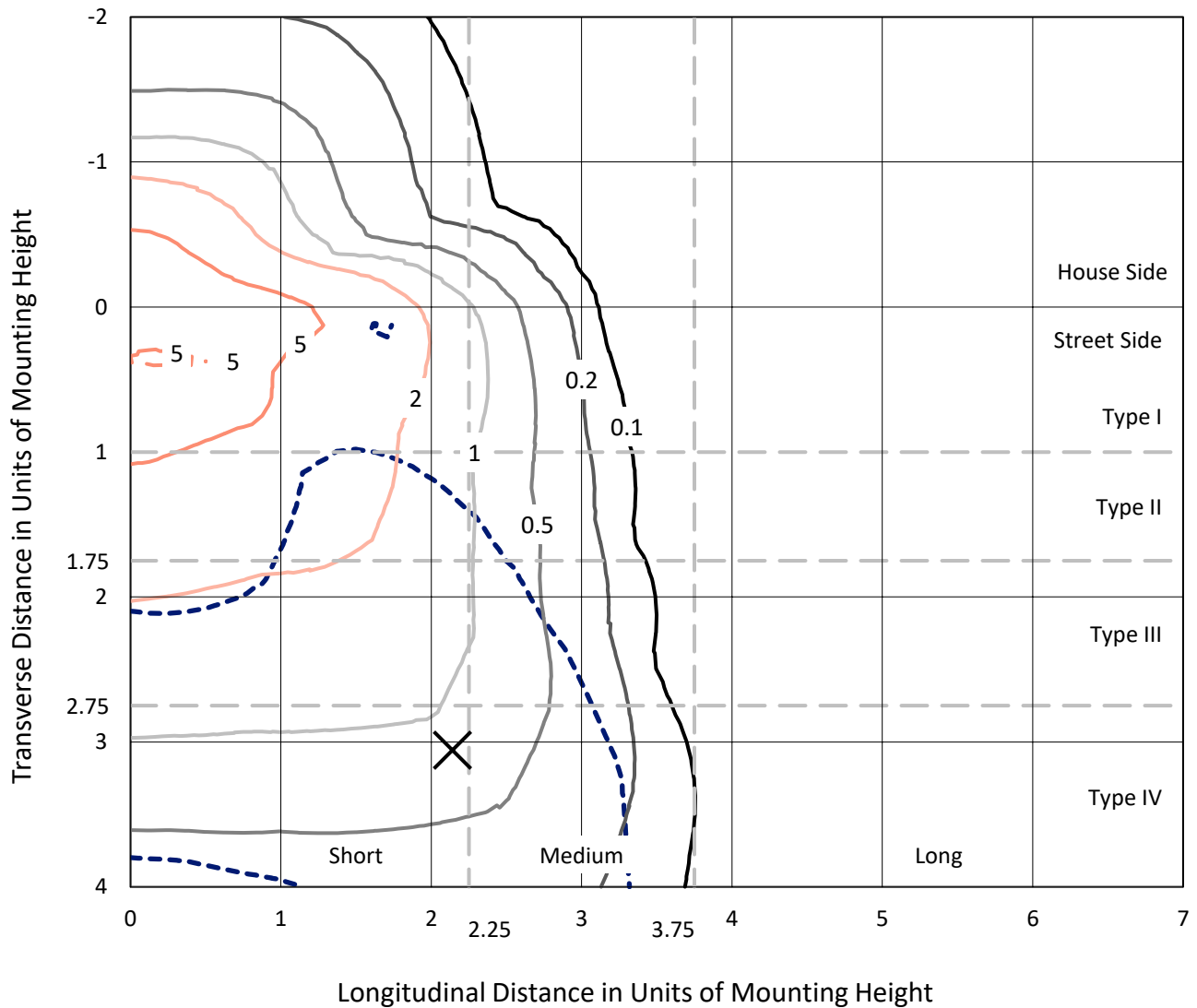
Input Watts (W): 249.5
Input Voltage (V): 120.0
Input Current (Ain): 2.116
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 7.885
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

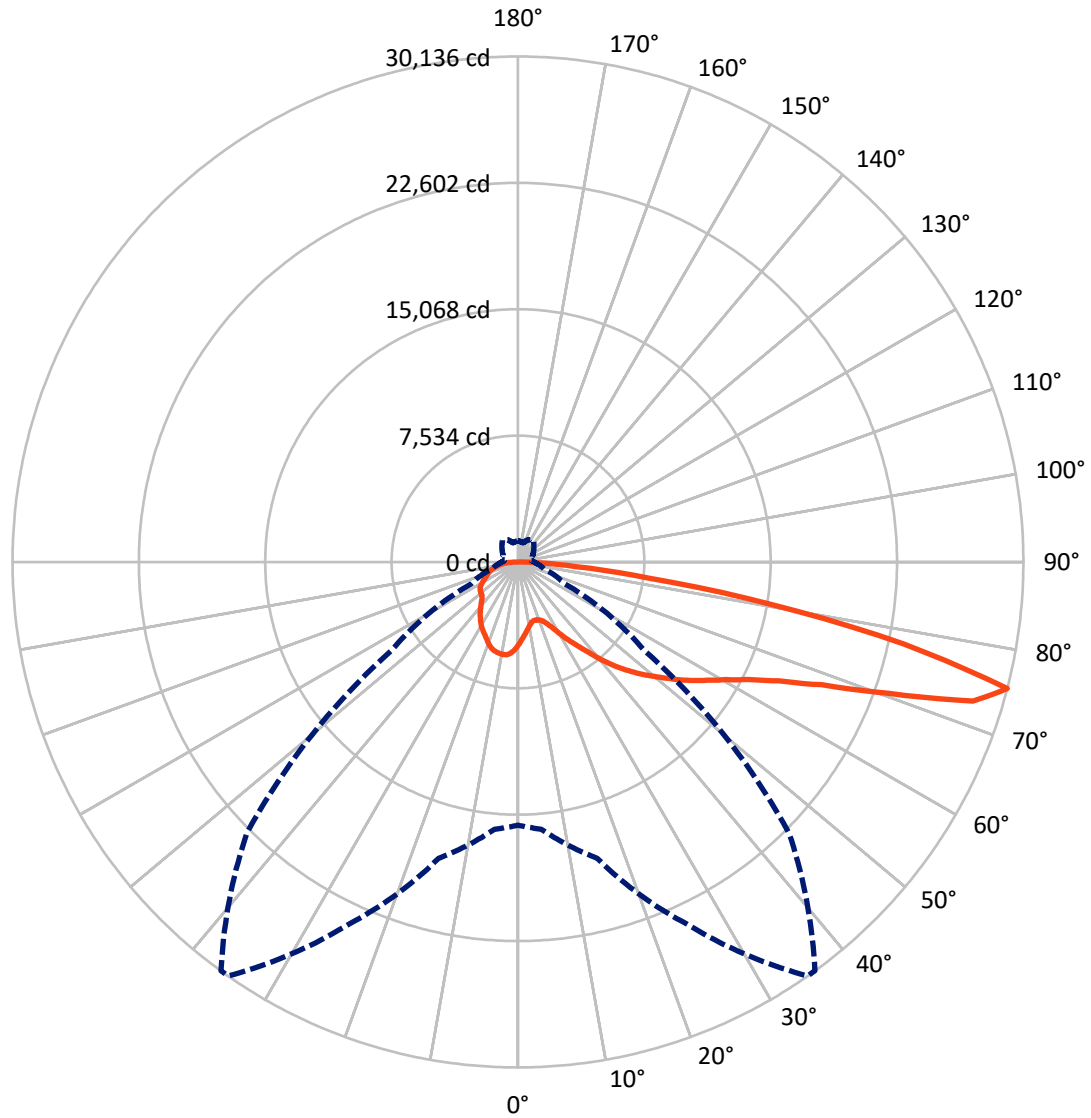
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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	8798.9	0.0	8798.9
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	28175.1	0.0	28175.1
	% Fixture	76.2	0.0	76.2
Total	Lumens	36974.0	0.0	36974.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.5	1.3
10°-20°	1345.6	3.6
20°-30°	2259.6	6.1
30°-40°	3511.7	9.5
40°-50°	5212.2	14.1
50°-60°	7195.8	19.5
60°-70°	8730.2	23.6
70°-80°	7214.8	19.5
80°-90°	1037.7	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°	36974.0	100.0
0°-180°	36974.0	100.0

Coefficient of Utilization



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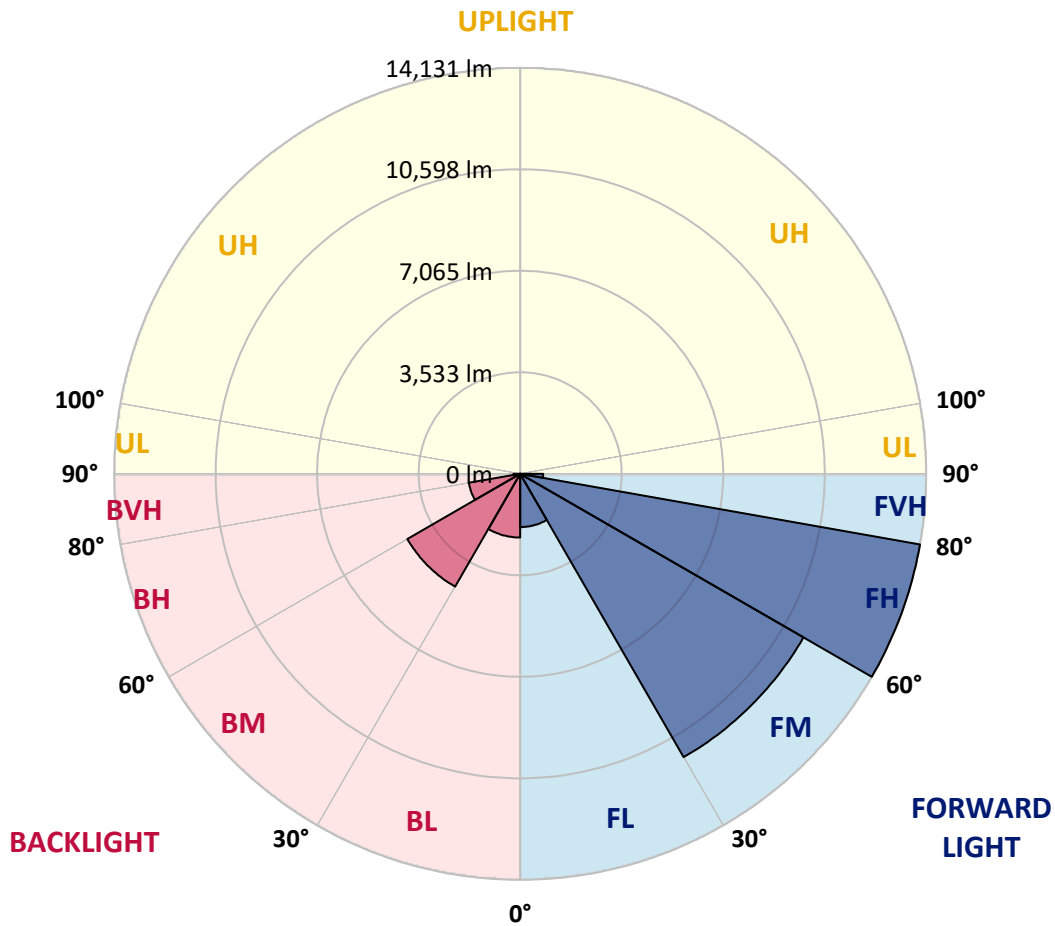
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1854.2	5.0			
FM (30°-60°)	11386.0	30.8			
FH (60°-80°)	14130.9	38.2			G5
FVH (80°-90°)	804.0	2.2			G5
BL (0°-30°)	2217.4	6.0	B3/2500		
BM (30°-60°)	4533.7	12.3	B3/5000		
BH (60°-80°)	1814.1	4.9	B3/2500		G3/2500
BVH (80°-90°)	233.7	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	4927.0	4927.0	4927.0	4927.0	4927.0	4927.0	4927.0	4927.0	4927.0	4927.0	4927.0
2.5°	4543.3	4571.2	4583.2	4577.2	4607.2	4603.2	4645.2	4697.2	4769.1	4839.1	4941.0
5°	4193.5	4223.5	4249.4	4273.4	4331.4	4349.4	4415.3	4515.3	4647.2	4781.1	4949.0
7.5°	3867.7	3893.7	3933.6	3977.6	4075.5	4093.5	4203.5	4359.4	4543.3	4739.1	4971.0
10°	3601.8	3627.8	3669.8	3719.8	3841.7	3863.7	4003.6	4211.5	4451.3	4699.2	4995.0
12.5°	3487.9	3495.9	3519.9	3569.9	3675.8	3689.8	3843.7	4081.5	4361.4	4669.2	5031.0
15°	3481.9	3497.9	3499.9	3525.9	3613.8	3619.8	3761.7	3997.6	4305.4	4663.2	5084.9
17.5°	3541.9	3553.9	3535.9	3551.9	3625.8	3635.8	3747.7	3957.6	4287.4	4689.2	5176.9
20°	3701.8	3711.8	3657.8	3635.8	3689.8	3697.8	3807.7	3983.6	4305.4	4743.1	5302.8
22.5°	4041.6	4047.6	3915.6	3825.7	3829.7	3833.7	3929.6	4089.5	4375.4	4841.1	5462.7
25°	4571.2	4567.3	4357.4	4183.5	4083.5	4061.6	4125.5	4261.4	4493.3	4971.0	5668.6
27.5°	5190.9	5160.9	4951.0	4691.2	4473.3	4441.3	4427.3	4485.3	4661.2	5142.9	5920.4
30°	5890.5	5862.5	5636.6	5296.8	4995.0	4943.0	4811.1	4781.1	4911.0	5376.8	6270.2
32.5°	6658.0	6640.0	6370.2	5958.4	5554.7	5494.7	5272.8	5192.9	5294.8	5730.6	6757.9
35°	7301.6	7285.6	7061.8	6638.0	6144.3	6070.3	5844.5	5754.5	5806.5	6184.3	7395.6
37.5°	7883.3	7875.3	7683.4	7349.6	6839.9	6749.9	6496.1	6466.1	6456.1	6781.9	8169.1
40°	8422.9	8402.9	8203.1	8027.2	7649.4	7567.4	7343.6	7317.6	7241.6	7517.5	9044.6
42.5°	9020.6	8968.6	8678.8	8596.8	8494.9	8426.9	8293.0	8297.0	8129.1	8347.0	9972.0
45°	9508.3	9478.3	9180.5	9132.5	9242.4	9214.5	9330.4	9360.4	9034.6	9216.5	10935.4
47.5°	10032.0	10004.0	9752.1	9718.2	10016.0	10024.0	10433.7	10443.7	9918.0	10119.9	11900.8
50°	10677.6	10637.6	10387.8	10429.7	10763.5	10793.5	11543.1	11475.1	10731.5	11037.4	12858.3
52.5°	11103.3	11127.3	11073.3	11141.3	11597.0	11625.0	12634.4	12460.5	11537.1	11942.8	13797.7
55°	11417.1	11465.1	11633.0	11788.9	12476.5	12504.5	13663.8	13397.9	12204.7	12782.3	14681.2
57.5°	11820.9	11752.9	12066.7	12370.6	13312.0	13385.9	14665.2	14301.4	12796.3	13505.9	15286.8
60°	12400.5	12352.6	12596.4	13046.2	14247.4	14365.4	15724.5	15114.9	13230.0	14079.5	15404.7
62.5°	13575.8	13455.9	13493.9	13891.6	15426.7	15582.6	16919.8	15824.5	13445.9	14303.4	14773.1
65°	15332.8	15126.9	14935.0	15210.8	17087.7	17241.6	18269.0	16382.1	13366.0	13869.7	13096.1
67.5°	17545.4	17341.6	17105.7	17365.6	19534.2	19656.2	19934.0	16696.0	12736.3	12198.7	10131.9
70°	19370.3	19294.4	19576.2	20645.6	23441.9	23445.9	22068.7	16436.1	11011.4	8648.8	5862.5
72.5°	19128.5	19082.5	20567.6	23873.6	28366.9	28261.0	24089.5	14469.3	7417.5	3901.7	2196.7
75°	15692.6	15990.4	18291.0	23815.7	30135.9	30121.9	22852.3	9198.5	3068.2	1617.0	1135.3
77.5°	8414.9	8886.7	11874.9	17583.4	23525.8	23879.6	16066.3	3218.1	1317.2	1035.4	785.5
80°	2744.3	3156.1	4733.2	8952.6	15286.8	15220.8	6885.9	1263.2	901.5	733.6	543.7
82.5°	1165.3	1213.3	2114.7	4227.5	7845.3	7723.4	2192.7	725.6	633.6	501.7	335.8
85°	455.7	509.7	933.4	1954.8	3398.0	3324.0	791.5	359.8	405.8	327.8	199.9
87.5°	149.9	181.9	333.8	669.6	1057.4	1019.4	193.9	123.9	175.9	149.9	72.0
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°	4927.0	4927.0	4927.0	4927.0	4927.0	4927.0	4927.0	4927.0	4927.0	4927.0	4927.0
2.5°	4969.0	5001.0	5039.0	5094.9	5142.9	5182.9	5224.9	5250.8	5260.8	5290.8	5288.8
5°	5005.0	5074.9	5168.9	5260.8	5350.8	5404.7	5452.7	5476.7	5498.7	5514.7	5518.7
7.5°	5065.0	5154.9	5302.8	5422.7	5498.7	5542.7	5574.6	5566.7	5574.6	5578.6	5584.6
10°	5116.9	5242.8	5418.7	5532.7	5590.6	5592.6	5584.6	5556.7	5542.7	5544.7	5548.7
12.5°	5178.9	5318.8	5508.7	5604.6	5620.6	5576.6	5542.7	5494.7	5476.7	5468.7	5464.7
15°	5262.8	5422.7	5606.6	5642.6	5602.6	5546.7	5488.7	5410.7	5370.8	5338.8	5348.8
17.5°	5364.8	5540.7	5682.6	5656.6	5570.6	5478.7	5384.8	5266.8	5184.9	5150.9	5152.9
20°	5506.7	5664.6	5740.5	5626.6	5496.7	5356.8	5196.9	5053.0	4977.0	4943.0	4939.0
22.5°	5678.6	5830.5	5796.5	5574.6	5390.8	5166.9	4967.0	4861.1	4823.1	4799.1	4803.1
25°	5884.5	6014.4	5836.5	5498.7	5216.9	4915.0	4761.1	4727.2	4709.2	4691.2	4691.2
27.5°	6152.3	6222.3	5866.5	5386.8	4945.0	4647.2	4591.2	4597.2	4591.2	4561.3	4567.3
30°	6506.1	6492.1	5894.5	5204.9	4633.2	4405.3	4409.3	4435.3	4439.3	4419.3	4429.3
32.5°	6971.8	6829.9	5908.4	4969.0	4335.4	4193.5	4197.5	4225.5	4245.4	4211.5	4227.5
35°	7535.5	7223.7	5886.5	4673.2	4105.5	3991.6	3961.6	3969.6	3975.6	3943.6	3965.6
37.5°	8193.1	7665.4	5788.5	4345.4	3915.6	3793.7	3729.8	3675.8	3643.8	3613.8	3633.8
40°	8914.6	8147.1	5608.6	4025.6	3703.8	3583.8	3487.9	3386.0	3278.0	3238.1	3256.0
42.5°	9670.2	8642.8	5390.8	3719.8	3459.9	3362.0	3260.0	3112.1	2950.2	2868.3	2878.3
45°	10453.7	9150.5	5176.9	3417.9	3210.1	3168.1	3050.2	2872.3	2696.4	2592.4	2584.4
47.5°	11221.2	9630.2	4863.1	3114.1	2976.2	3022.2	2930.2	2766.3	2570.5	2406.6	2388.6
50°	11954.8	10079.9	4349.4	2806.3	2786.3	2978.2	2890.3	2654.4	2430.5	2220.7	2202.7
52.5°	12682.4	10443.7	3691.8	2526.5	2684.4	2966.2	2838.3	2578.4	2304.6	2084.7	2060.8
55°	13300.0	10631.6	3058.2	2286.6	2536.5	2864.3	2776.3	2488.5	2126.7	1892.9	1872.9
57.5°	13651.8	10479.7	2530.5	2050.8	2332.6	2696.4	2670.4	2296.6	1914.8	1735.0	1711.0
60°	13499.9	9864.1	2098.7	1844.9	2138.7	2514.5	2486.5	2106.7	1752.9	1583.0	1559.1
62.5°	12662.4	8690.8	1756.9	1665.0	1962.8	2328.6	2302.6	1960.8	1629.0	1465.1	1439.1
65°	10975.4	7069.7	1491.1	1515.1	1784.9	2104.7	2142.7	1838.9	1531.1	1371.2	1345.2
67.5°	8371.0	5120.9	1283.2	1385.2	1611.0	1884.9	1994.8	1750.9	1449.1	1297.2	1273.2
70°	4771.1	2908.3	1107.3	1259.2	1457.1	1681.0	1880.9	1681.0	1361.2	1235.3	1219.3
72.5°	1808.9	1335.2	957.4	1133.3	1309.2	1509.1	1754.9	1571.1	1259.2	1165.3	1149.3
75°	965.4	813.5	805.5	985.4	1139.3	1341.2	1597.0	1463.1	1183.3	1231.3	1271.2
77.5°	657.6	575.7	673.6	843.5	953.4	1155.3	1429.1	1299.2	1025.4	1021.4	941.4
80°	455.7	407.8	547.7	679.6	737.6	971.4	1247.2	1115.3	835.5	779.5	745.6
82.5°	273.8	265.8	409.8	507.7	521.7	749.5	1033.4	935.4	683.6	595.6	599.6
85°	149.9	157.9	261.8	297.8	303.8	523.7	809.5	723.6	525.7	441.7	445.7
87.5°	42.0	54.0	95.9	117.9	145.9	271.8	481.7	429.7	263.8	183.9	183.9
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)