

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: P885280

Luminaire Tested: **NAV-SB6C-727-U-T4FT-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885280
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-727-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31190 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

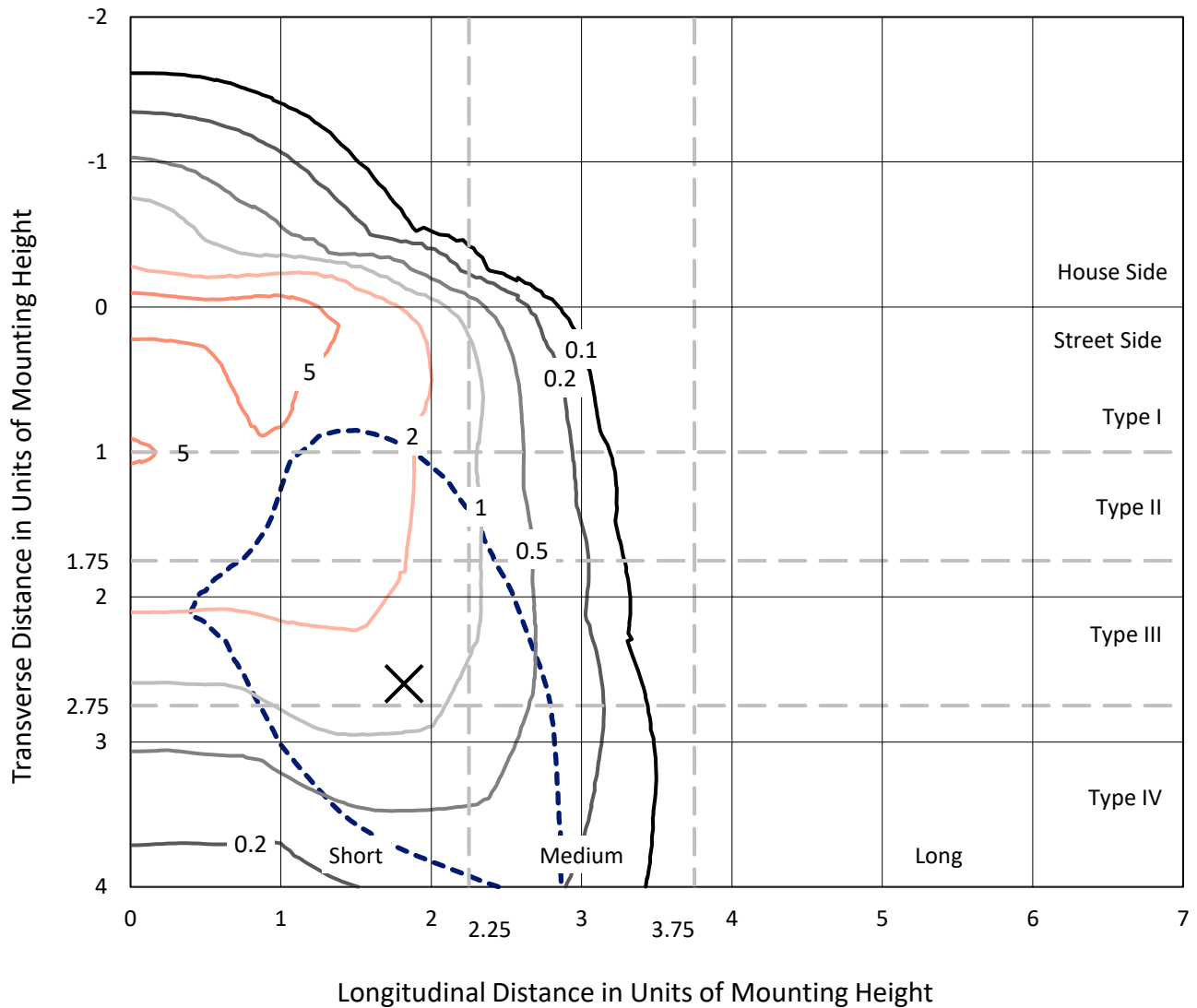
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

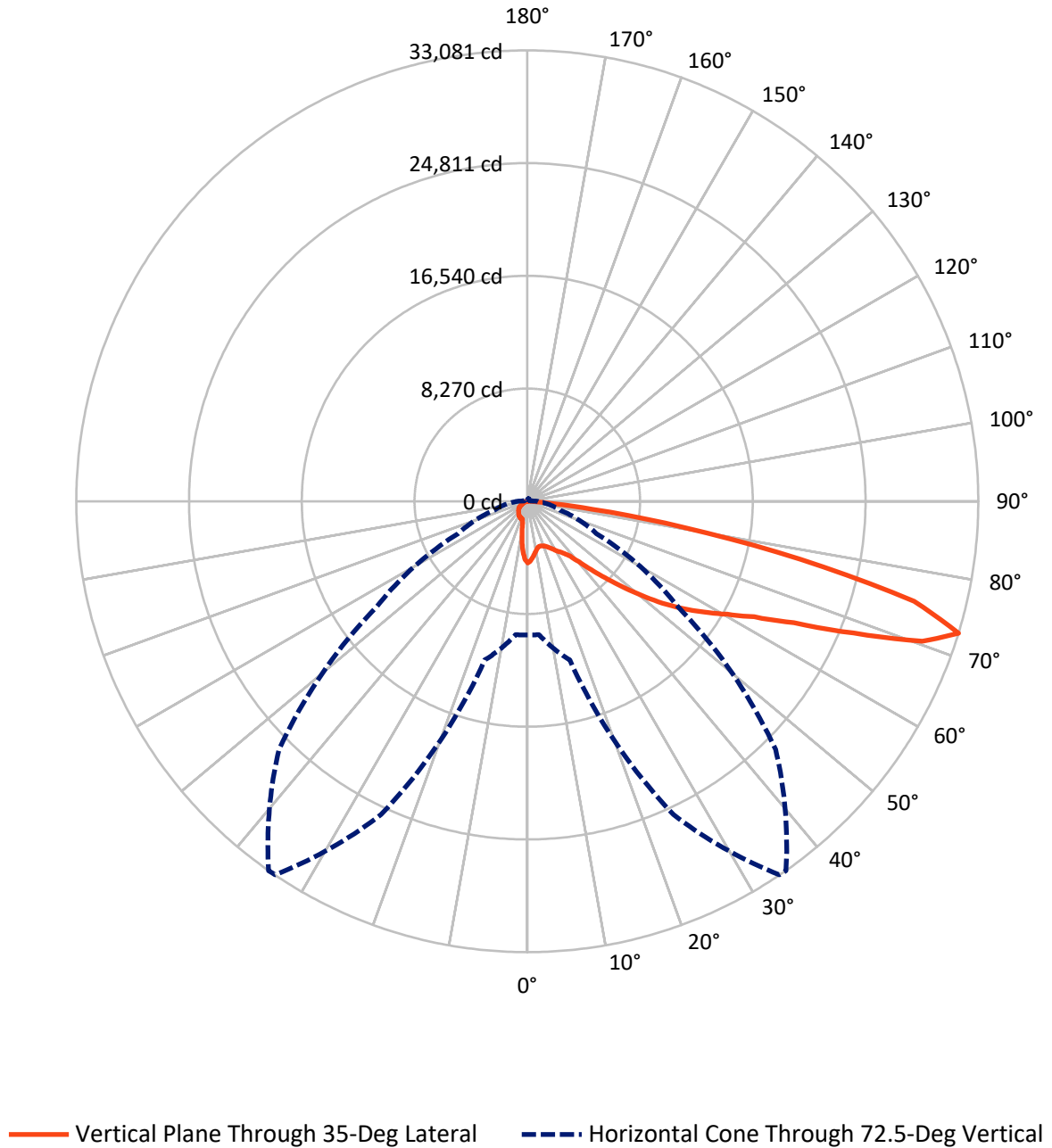
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3510.3	0.0	3510.3
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	27679.7	0.0	27679.7
	% Fixture	88.7	0.0	88.7
Total	Lumens	31190.0	0.0	31190.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.5	1.2
10°-20°	869.0	2.8
20°-30°	1411.7	4.5
30°-40°	2355.3	7.6
40°-50°	4456.4	14.3
50°-60°	7081.1	22.7
60°-70°	8759.8	28.1
70°-80°	5445.2	17.5
80°-90°	440.1	1.4
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°	31190.0	100.0
0°-180°	31190.0	100.0

Coefficient of Utilization



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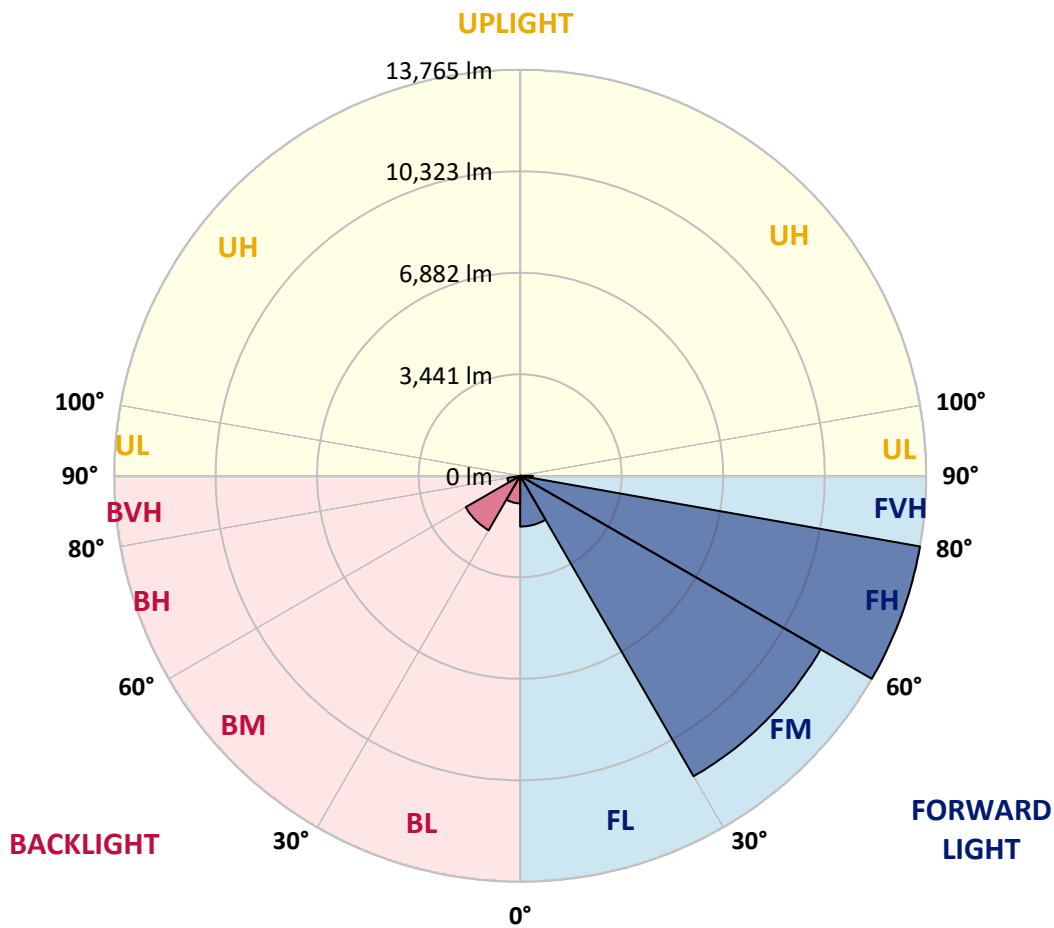
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1719.4	5.5			
FM (30°-60°)	11761.7	37.7			
FH (60°-80°)	13764.5	44.1			G5
FVH (80°-90°)	434.1	1.4			G3/500
BL (0°-30°)	932.8	3.0	B2/1000		
BM (30°-60°)	2131.1	6.8	B2/2500		
BH (60°-80°)	440.5	1.4	B1/500		G1/500
BVH (80°-90°)	6.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4520.5	4520.5	4520.5	4520.5	4520.5	4520.5	4520.5	4520.5	4520.5	4520.5	4520.5
2.5°	4319.4	4355.9	4362.8	4374.2	4374.2	4387.9	4410.8	4442.8	4495.3	4522.8	4541.0
5°	3981.1	4008.6	4042.8	4070.3	4122.8	4129.7	4218.8	4305.7	4426.8	4518.2	4582.2
7.5°	3640.6	3672.6	3718.3	3784.6	3853.1	3873.7	4008.6	4154.8	4346.8	4518.2	4625.6
10°	3400.6	3402.9	3444.1	3510.3	3620.0	3645.2	3809.7	4017.7	4257.7	4490.8	4666.7
12.5°	3265.8	3281.8	3300.1	3350.4	3455.5	3471.5	3647.5	3892.0	4168.5	4474.8	4714.7
15°	3265.8	3277.2	3288.7	3313.8	3398.4	3412.1	3567.5	3812.0	4122.8	4481.6	4792.4
17.5°	3300.1	3318.4	3309.2	3338.9	3428.1	3437.2	3574.3	3789.2	4120.5	4525.0	4911.3
20°	3382.4	3396.1	3377.8	3396.1	3485.2	3503.5	3645.2	3832.6	4159.4	4600.5	5059.8
22.5°	3512.6	3519.5	3476.1	3489.8	3581.2	3604.0	3768.6	3956.0	4253.1	4721.6	5258.7
25°	3677.2	3690.9	3624.6	3640.6	3727.5	3754.9	3944.6	4141.1	4401.6	4888.4	5512.3
27.5°	3866.9	3873.7	3816.6	3814.3	3926.3	3965.1	4157.1	4369.6	4600.5	5098.7	5832.3
30°	4084.0	4104.5	4049.7	4040.5	4182.2	4214.2	4403.9	4650.7	4893.0	5414.1	6287.1
32.5°	4255.4	4271.4	4239.4	4262.2	4406.2	4431.3	4703.3	5048.4	5352.4	5862.0	6906.4
35°	4502.2	4511.3	4438.2	4479.3	4643.9	4707.9	5112.4	5606.0	5930.6	6424.2	7715.4
37.5°	5395.8	5395.8	5085.0	4881.6	5039.3	5096.4	5672.3	6307.6	6643.6	7178.4	8734.7
40°	6632.2	6611.6	6156.8	5740.9	5720.3	5832.3	6469.9	7192.1	7564.6	8083.4	9882.0
42.5°	7950.8	7918.8	7299.5	6888.1	6819.6	6858.4	7390.9	8282.2	8661.6	9187.2	11116.1
45°	9120.9	9111.8	8545.0	7992.0	7868.6	7992.0	8540.5	9557.4	9829.4	10382.5	12347.9
47.5°	10101.4	10101.4	9687.7	9326.6	9262.6	9335.8	10096.8	10972.1	10947.0	11655.4	13547.7
50°	11230.3	11221.2	10828.1	10672.7	10739.0	10841.8	11888.5	12462.2	12103.4	12905.5	14619.6
52.5°	12021.1	12075.9	11941.1	11916.0	12254.2	12432.5	13707.7	13920.2	13138.6	14091.6	15421.7
55°	12647.3	12711.3	12866.7	13042.6	13694.0	13927.1	15469.7	15302.9	14004.8	15120.1	15883.4
57.5°	13534.0	13442.6	13682.6	14029.9	15083.5	15364.6	17176.9	16607.8	14701.8	15954.2	15933.7
60°	14610.4	14624.1	14665.3	15104.1	16470.7	16831.8	18858.9	17841.9	15149.8	16466.1	15376.0
62.5°	15903.9	15924.5	16009.1	16683.3	18333.3	18673.8	20650.7	18852.1	15355.5	16322.2	13936.2
65°	15814.8	15901.7	16845.5	19151.5	21164.9	21500.8	22741.8	19560.5	15044.6	15005.8	11346.9
67.5°	14407.0	14548.7	16127.9	22099.6	25434.0	25808.8	25269.4	19700.0	13703.1	11669.1	7402.3
70°	12560.4	12610.7	14509.9	24750.6	30377.2	30756.6	27531.9	18166.5	10398.5	6508.8	3316.1
72.5°	9808.8	9820.3	12048.5	25365.4	33060.3	33080.8	25756.2	13486.0	5592.3	2500.2	1151.8
75°	7007.0	6938.4	8069.7	20570.7	29086.0	29319.1	19309.2	6325.9	2136.8	1181.5	573.6
77.5°	3757.2	3832.6	4566.2	12199.3	20093.0	20490.7	10535.6	1823.7	1087.8	804.5	379.4
80°	1161.0	1225.0	1871.7	5585.5	11381.2	11621.1	3905.7	811.3	758.7	573.6	249.1
82.5°	365.7	379.4	873.0	2347.1	4723.9	4833.6	1131.3	459.4	518.8	379.4	146.3
85°	105.1	107.4	388.5	875.3	1167.8	1190.7	317.7	178.3	297.1	235.4	75.4
87.5°	11.4	36.6	146.3	146.3	102.8	100.6	34.3	38.9	84.6	29.7	13.7
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°	4520.5	4520.5	4520.5	4520.5	4520.5	4520.5	4520.5	4520.5	4520.5	4520.5	4520.5
2.5°	4529.6	4531.9	4502.2	4451.9	4397.1	4351.4	4294.2	4248.5	4216.5	4207.4	4223.4
5°	4561.6	4545.6	4461.1	4307.9	4125.1	3967.4	3791.4	3652.0	3560.6	3521.8	3535.5
7.5°	4609.6	4563.9	4378.8	4077.1	3727.5	3416.6	3101.3	2856.7	2701.3	2623.6	2635.0
10°	4650.7	4559.3	4241.7	3743.4	3208.7	2737.9	2312.8	2018.0	1853.4	1775.7	1778.0
12.5°	4689.6	4557.0	4063.4	3348.1	2623.6	2047.7	1652.3	1506.1	1460.4	1444.4	1439.8
15°	4762.7	4563.9	3839.4	2895.6	2040.8	1547.2	1403.2	1400.9	1410.1	1405.5	1403.2
17.5°	4863.3	4570.8	3585.8	2415.6	1574.6	1364.4	1357.5	1378.1	1391.8	1384.9	1382.7
20°	4993.5	4598.2	3316.1	1940.3	1352.9	1318.7	1334.7	1352.9	1364.4	1352.9	1350.7
22.5°	5176.4	4646.2	3021.3	1558.6	1282.1	1291.2	1305.0	1325.5	1336.9	1320.9	1318.7
25°	5400.3	4721.6	2731.0	1355.2	1247.8	1259.2	1279.8	1302.7	1316.4	1300.4	1298.1
27.5°	5690.6	4842.7	2463.6	1309.5	1213.5	1220.4	1250.1	1284.4	1302.7	1282.1	1282.1
30°	6111.1	5041.5	2232.8	1330.1	1193.0	1177.0	1218.1	1266.1	1286.7	1268.4	1266.1
32.5°	6668.7	5322.6	2091.1	1362.1	1183.8	1126.7	1165.5	1227.2	1261.5	1250.1	1250.1
35°	7400.1	5750.0	2036.3	1398.7	1177.0	1074.1	1101.6	1167.8	1227.2	1238.7	1238.7
37.5°	8286.8	6344.2	2052.3	1414.6	1156.4	1030.7	1044.4	1101.6	1179.3	1215.8	1225.0
40°	9294.6	7036.7	2143.7	1398.7	1133.5	994.1	996.4	1039.8	1108.4	1163.3	1181.5
42.5°	10334.5	7845.7	2312.8	1339.2	1113.0	962.1	955.3	985.0	1030.7	1069.6	1085.6
45°	11324.0	8677.6	2479.6	1257.0	1087.8	930.1	914.2	925.6	934.7	950.7	959.9
47.5°	12187.9	9262.6	2431.6	1181.5	1053.6	893.6	866.2	861.6	834.2	831.9	829.6
50°	12784.4	9390.6	2159.7	1106.1	1003.3	852.4	809.0	781.6	733.6	710.8	713.0
52.5°	12974.1	8885.5	1764.3	1030.7	921.0	797.6	735.9	692.5	633.0	612.5	610.2
55°	12722.7	7896.0	1410.1	939.3	806.7	724.5	655.9	598.8	550.8	525.6	525.6
57.5°	12107.9	6636.7	1115.3	831.9	685.6	642.2	573.6	516.5	475.4	450.2	445.6
60°	11088.7	5270.1	882.2	703.9	585.1	553.1	482.2	445.6	409.1	379.4	372.5
62.5°	9541.5	3761.7	692.5	557.6	489.1	452.5	411.4	383.9	340.5	299.4	292.5
65°	7445.8	2301.4	534.8	409.1	393.1	374.8	349.7	324.5	272.0	230.8	224.0
67.5°	4696.5	1090.1	381.7	308.5	310.8	301.7	290.2	269.7	230.8	194.3	189.7
70°	2068.3	527.9	251.4	235.4	230.8	230.8	240.0	233.1	196.5	162.3	155.4
72.5°	703.9	283.4	187.4	178.3	166.8	164.5	201.1	194.3	157.7	125.7	118.8
75°	367.9	189.7	137.1	128.0	100.6	121.1	160.0	150.8	112.0	82.3	75.4
77.5°	240.0	134.8	93.7	82.3	57.1	80.0	118.8	105.1	66.3	41.1	36.6
80°	150.8	89.1	54.8	38.9	27.4	43.4	64.0	45.7	25.1	9.1	6.9
82.5°	80.0	45.7	20.6	13.7	11.4	13.7	16.0	11.4	4.6	0.0	0.0
85°	32.0	16.0	6.9	4.6	2.3	0.0	4.6	2.3	0.0	0.0	0.0
87.5°	11.4	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)