

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: P970801

Luminaire Tested: **NAV-SB6C-722-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970801
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-722-U-T2U-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29387.8 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

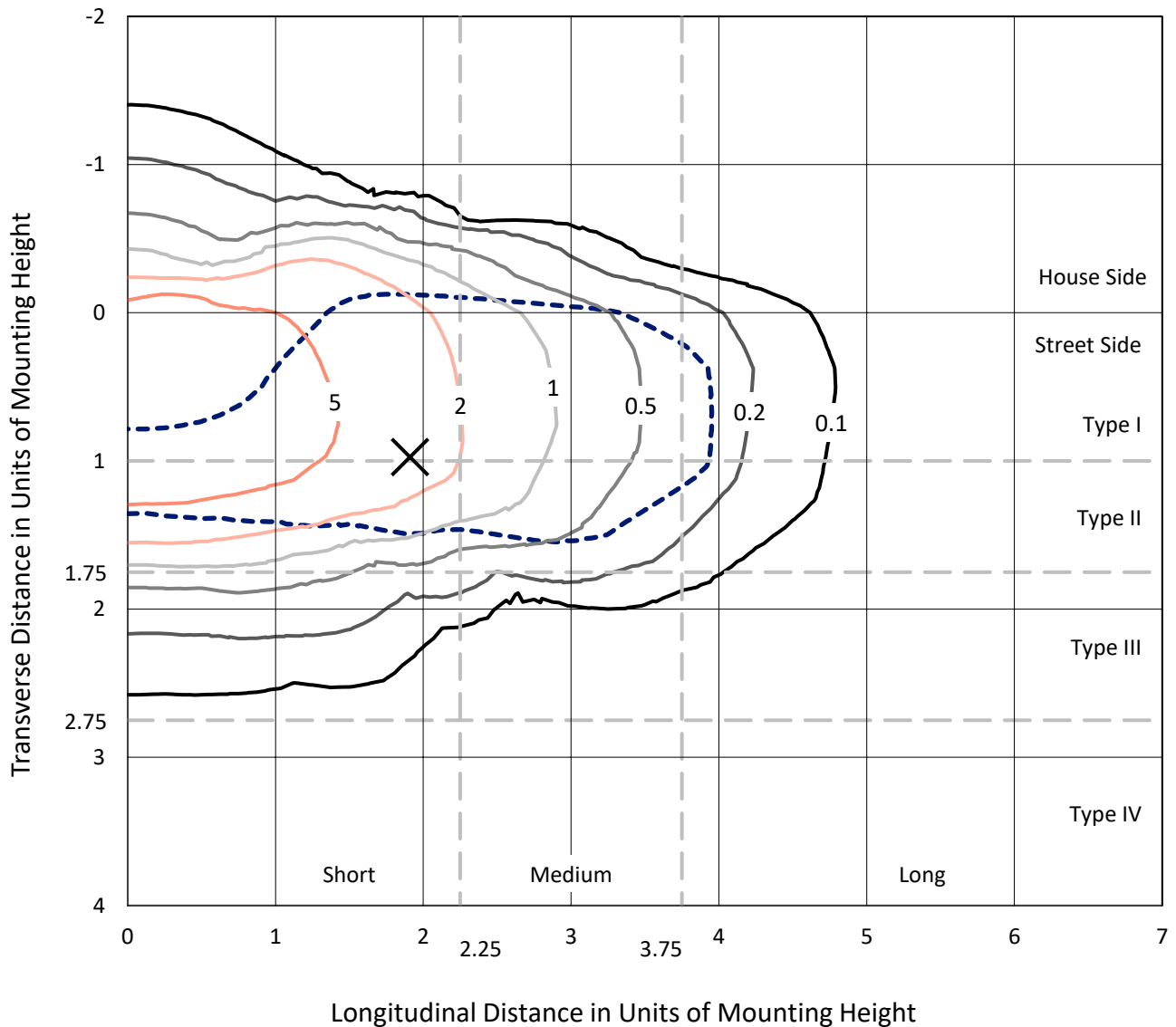
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

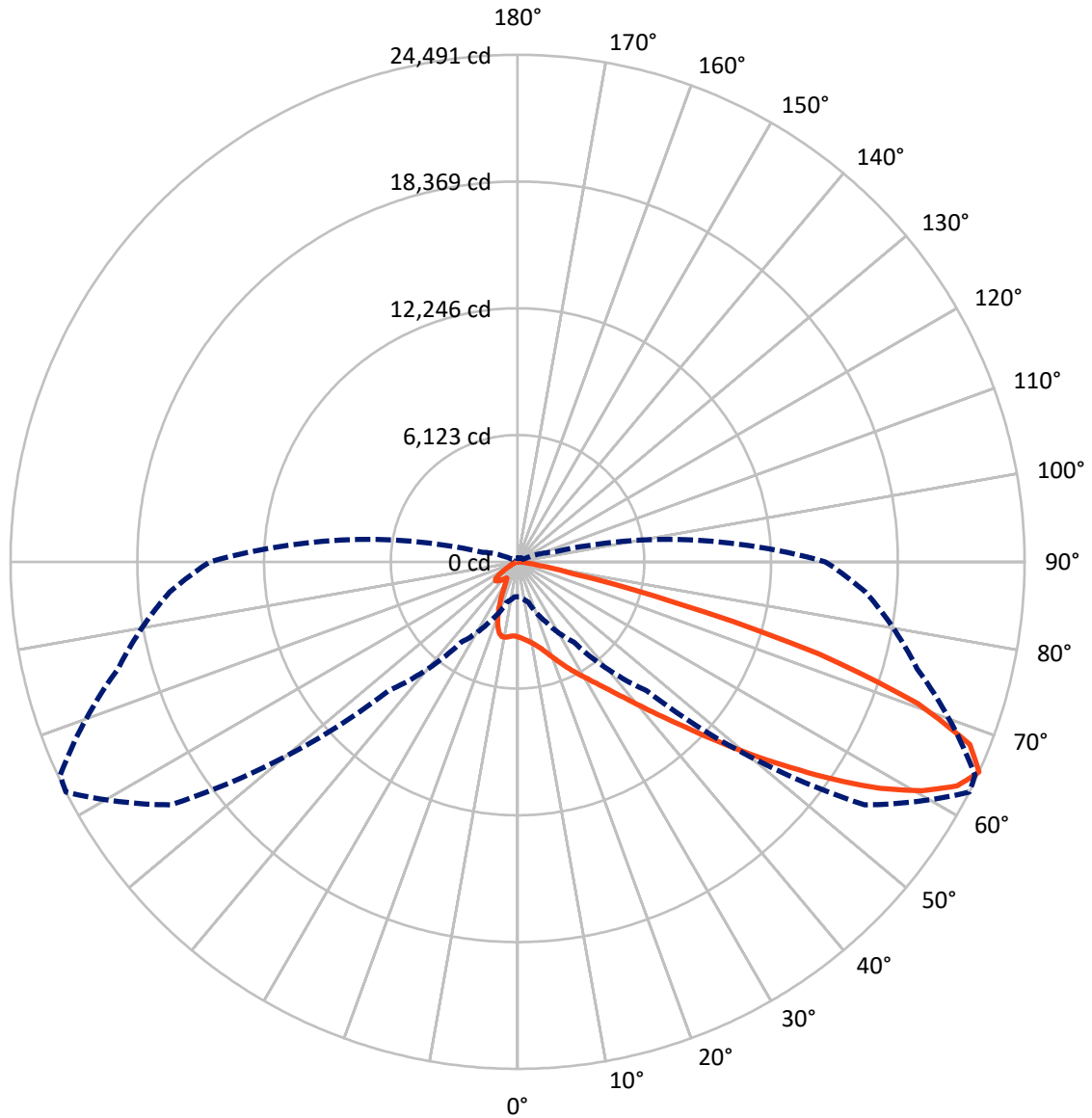
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4319.8	0.0	4319.8
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	25068.0	0.0	25068.0
	% Fixture	85.3	0.0	85.3
Total	Lumens	29387.8	0.0	29387.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.7	1.2
10°-20°	948.2	3.2
20°-30°	1651.0	5.6
30°-40°	2975.8	10.1
40°-50°	5902.0	20.1
50°-60°	8039.5	27.4
60°-70°	6417.0	21.8
70°-80°	2903.8	9.9
80°-90°	208.7	0.7
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°	29387.8	100.0
0°-180°	29387.8	100.0

Coefficient of Utilization

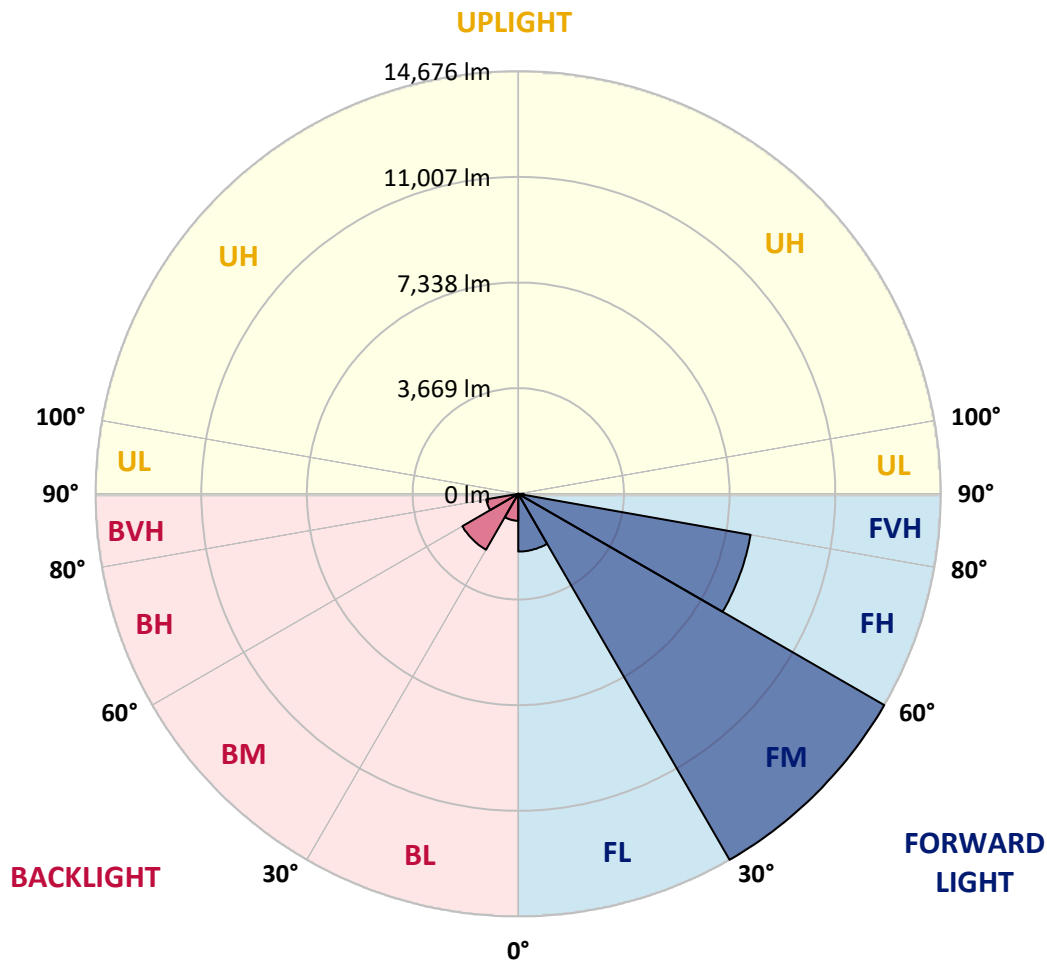


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2006.1	6.8			
FM (30°-60°)	14675.5	49.9			
FH (60°-80°)	8193.2	27.9			G4/12000
FVH (80°-90°)	193.2	0.7			G2/225
BL (0°-30°)	934.9	3.2	B2/1000		
BM (30°-60°)	2241.7	7.6	B2/2500		
BH (60°-80°)	1127.7	3.8	B3/2500		G3/2500
BVH (80°-90°)	15.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	3627.0	3627.0	3627.0	3627.0	3627.0	3627.0	3627.0	3627.0	3627.0	3627.0	3627.0
2.5°	3711.9	3701.8	3715.9	3709.9	3705.9	3697.8	3693.7	3689.7	3681.6	3675.5	3651.3
5°	3722.0	3715.9	3730.1	3742.3	3754.4	3766.5	3772.6	3780.6	3772.6	3756.4	3732.1
7.5°	3637.1	3633.1	3663.4	3699.8	3754.4	3800.9	3851.4	3879.7	3881.8	3875.7	3849.4
10°	3631.1	3620.9	3651.3	3695.7	3766.5	3849.4	3938.4	3999.0	4007.1	4033.4	4005.1
12.5°	3726.1	3715.9	3758.5	3807.0	3879.7	3966.6	4075.8	4160.8	4172.9	4209.3	4189.1
15°	3885.8	3871.6	3920.1	3982.8	4075.8	4174.9	4290.1	4367.0	4377.1	4421.5	4385.2
17.5°	4071.8	4057.7	4114.2	4181.0	4282.0	4417.5	4550.9	4635.9	4648.0	4676.3	4609.5
20°	4310.3	4292.2	4336.7	4397.2	4504.5	4666.2	4825.9	4947.2	4945.2	4945.2	4836.1
22.5°	4587.3	4559.0	4597.4	4645.9	4747.1	4943.2	5155.4	5298.9	5298.9	5242.4	5062.5
25°	4884.5	4856.2	4898.7	4943.2	5032.1	5254.6	5503.2	5681.1	5689.2	5592.1	5305.1
27.5°	5256.5	5220.1	5252.5	5305.1	5357.6	5584.1	5879.2	6085.4	6089.5	5939.9	5535.5
30°	5972.3	5869.2	5768.0	5711.4	5735.7	5960.1	6275.5	6503.9	6524.1	6318.0	5786.2
32.5°	7282.3	7262.1	6906.2	6441.3	6198.7	6364.4	6718.3	6993.2	7005.4	6740.5	6111.8
35°	9318.2	9294.0	8721.8	7836.2	7045.7	6906.2	7256.1	7581.5	7573.4	7274.2	6534.3
37.5°	11748.3	11726.1	10972.0	9787.2	8507.5	7725.1	7949.5	8291.1	8341.8	7949.5	7080.2
40°	13824.7	13741.8	13264.6	12122.4	10448.3	9083.7	8936.1	9162.6	9215.1	8750.1	7773.6
42.5°	15397.6	15326.8	15084.2	14370.5	12797.6	11093.3	10098.6	10185.5	10244.2	9686.1	8570.1
45°	16212.3	16196.2	16293.2	16226.5	15191.4	13559.8	11760.4	11398.6	11420.9	10723.3	9473.9
47.5°	16327.6	16319.5	16762.2	17389.0	17249.5	16341.8	13893.5	12910.9	12832.0	11893.9	10456.4
50°	15648.3	15632.1	16481.3	17655.8	18624.2	18678.9	16315.4	14615.2	14441.3	13104.9	11481.4
52.5°	13479.0	13475.0	14869.9	16825.0	19107.5	20724.9	18709.2	16487.3	16196.2	14386.7	12565.2
55°	10371.6	10446.4	12045.6	14356.4	18226.0	21709.5	20858.3	18565.6	18118.8	15676.6	13563.8
57.5°	7347.0	7456.2	9037.2	11095.3	15492.6	21127.2	22312.0	20648.0	20166.9	16962.4	14576.7
60°	3946.5	4043.5	5626.5	8082.9	11525.9	18955.8	23078.2	22455.5	22000.6	18183.6	15490.6
62.5°	2351.2	2383.6	3038.7	5218.1	7795.8	14481.7	22752.7	23832.3	23458.3	19208.6	16285.1
65°	1688.2	1694.2	2023.8	3186.3	4732.9	8798.6	20470.2	24491.4	24376.1	19980.8	16873.4
67.5°	1421.3	1417.3	1554.7	2116.7	3224.6	4407.4	15688.8	23559.4	24048.7	20470.2	17207.1
70°	1219.1	1225.2	1386.9	1550.7	2424.0	2494.8	7799.8	20512.6	21555.9	20599.5	17186.8
72.5°	907.7	927.9	1077.6	1413.2	1829.7	1716.5	2693.0	15209.6	17095.9	19408.7	16295.2
75°	640.9	651.0	758.2	1188.8	1364.7	1249.5	1374.8	7862.6	10280.5	14880.0	13337.4
77.5°	493.3	511.5	574.2	831.0	1344.5	877.4	841.0	2721.3	4181.0	8988.6	9144.3
80°	266.9	299.2	414.4	600.4	944.1	620.6	416.5	1083.6	1417.3	4203.2	3525.9
82.5°	137.5	153.6	289.2	432.7	537.8	541.8	206.2	450.9	584.2	1298.0	483.2
85°	54.6	66.7	194.1	238.5	277.0	266.9	93.0	181.9	210.2	359.9	147.6
87.5°	12.1	20.2	70.7	54.6	52.6	56.6	22.2	42.4	40.4	42.4	26.2
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°	3627.0	3627.0	3627.0	3627.0	3627.0	3627.0	3627.0	3627.0	3627.0	3627.0	3627.0
2.5°	3649.2	3641.2	3619.0	3594.7	3566.4	3550.2	3540.0	3538.1	3523.8	3513.8	3523.8
5°	3709.9	3701.8	3659.4	3608.8	3554.2	3511.8	3471.4	3435.0	3382.4	3372.2	3368.3
7.5°	3831.2	3809.0	3740.2	3671.4	3568.3	3445.0	3295.5	3123.6	2969.9	2923.4	2901.2
10°	3980.8	3950.5	3863.5	3742.3	3513.8	3178.2	2816.3	2480.7	2213.8	2139.0	2110.7
12.5°	4150.6	4124.4	4009.1	3784.7	3285.3	2676.8	2122.9	1706.3	1447.6	1382.8	1364.7
15°	4352.8	4314.4	4154.6	3720.0	2877.0	2033.9	1457.7	1211.0	1118.1	1105.9	1093.8
17.5°	4567.1	4504.5	4284.1	3487.5	2327.1	1445.6	1126.1	1055.3	1015.0	1002.8	996.7
20°	4763.2	4682.4	4360.9	3135.7	1738.7	1126.1	1008.8	962.4	926.0	911.8	903.7
22.5°	4959.4	4844.0	4360.9	2656.6	1304.0	998.8	926.0	883.6	841.0	822.9	812.7
25°	5163.5	5009.9	4284.1	2122.9	1049.3	915.8	847.1	800.6	764.2	742.0	733.9
27.5°	5361.7	5149.4	4108.2	1617.3	934.1	843.1	774.3	729.8	695.5	679.3	679.3
30°	5549.7	5286.8	3861.5	1227.2	859.3	772.3	707.7	669.2	634.8	618.7	620.6
32.5°	5804.5	5460.7	3598.7	1006.9	794.6	705.6	647.0	610.6	580.3	568.2	568.2
35°	6158.2	5717.4	3372.2	988.6	739.9	651.0	592.3	558.0	527.7	517.5	517.5
37.5°	6659.6	6132.0	3252.9	1110.0	695.5	602.5	547.9	511.5	483.2	475.1	473.0
40°	7278.3	6694.0	3317.7	1231.2	665.1	560.1	507.5	471.1	446.8	436.6	434.7
42.5°	8012.1	7387.5	3675.5	1324.2	644.9	523.7	469.0	428.7	412.5	408.4	408.4
45°	8855.3	8149.7	4223.4	1423.3	612.5	489.2	430.6	400.3	388.2	386.1	384.2
47.5°	9813.6	8986.7	4858.3	1546.6	580.3	456.9	400.3	380.1	370.0	365.9	365.9
50°	10763.7	9829.8	5511.2	1615.4	553.9	426.6	376.1	359.9	351.8	349.7	349.7
52.5°	11758.5	10697.0	6039.0	1550.7	531.7	402.3	355.8	343.7	335.6	333.6	333.6
55°	12706.6	11398.6	6129.9	1316.2	487.3	378.0	333.6	327.5	317.4	317.4	315.4
57.5°	13523.4	11750.4	5487.0	966.4	442.8	341.6	311.4	305.2	297.1	295.2	293.2
60°	14273.5	11649.3	4235.5	651.0	394.2	305.2	283.0	279.0	270.9	260.8	258.8
62.5°	14696.0	11204.5	2897.2	424.6	345.7	266.9	250.7	248.7	230.5	210.2	206.2
65°	14855.7	10290.7	1807.5	309.3	289.2	228.5	216.4	212.3	186.0	163.8	161.7
67.5°	14716.2	8786.5	911.8	244.7	228.5	190.0	177.9	177.9	159.7	139.5	137.5
70°	14158.2	6586.9	384.2	196.1	175.9	145.5	145.5	153.6	135.5	113.3	111.2
72.5°	12947.3	4431.7	204.2	149.6	131.4	103.1	119.3	125.4	107.1	84.9	84.9
75°	10292.7	2703.0	141.6	111.2	82.9	72.8	91.0	95.0	72.8	56.6	54.6
77.5°	7039.7	1552.7	95.0	70.7	52.6	42.4	62.6	58.6	38.4	26.2	28.3
80°	3091.2	647.0	54.6	32.4	20.2	16.2	22.2	16.2	12.1	8.1	8.1
82.5°	361.9	151.6	20.2	12.1	8.1	4.0	2.0	0.0	0.0	0.0	0.0
85°	74.8	18.2	10.1	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.1	4.0	2.0	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)