

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: P885270

Luminaire Tested: **NAV-SB6C-722-U-T4FT-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885270
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-722-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 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: 27426 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

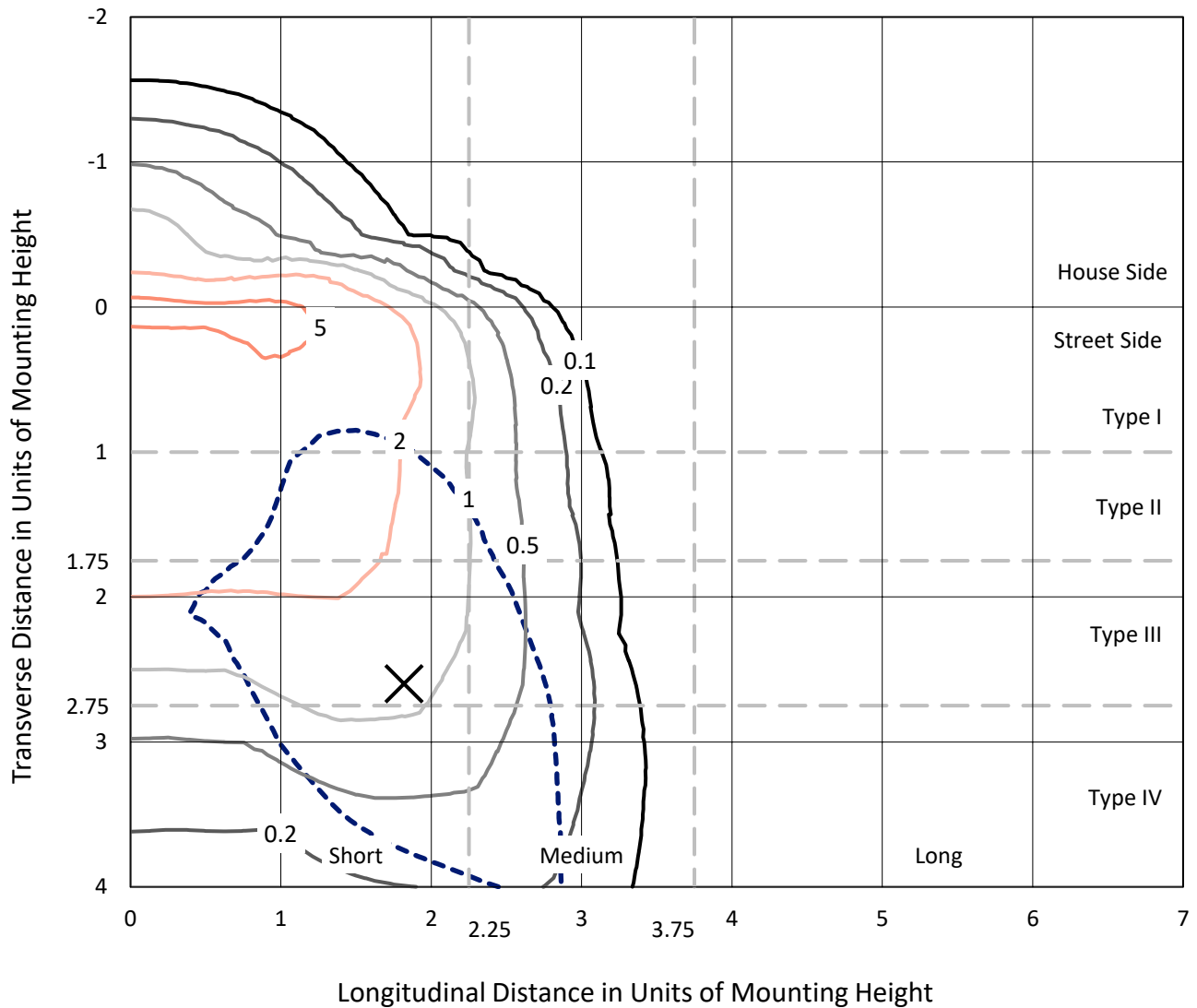
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

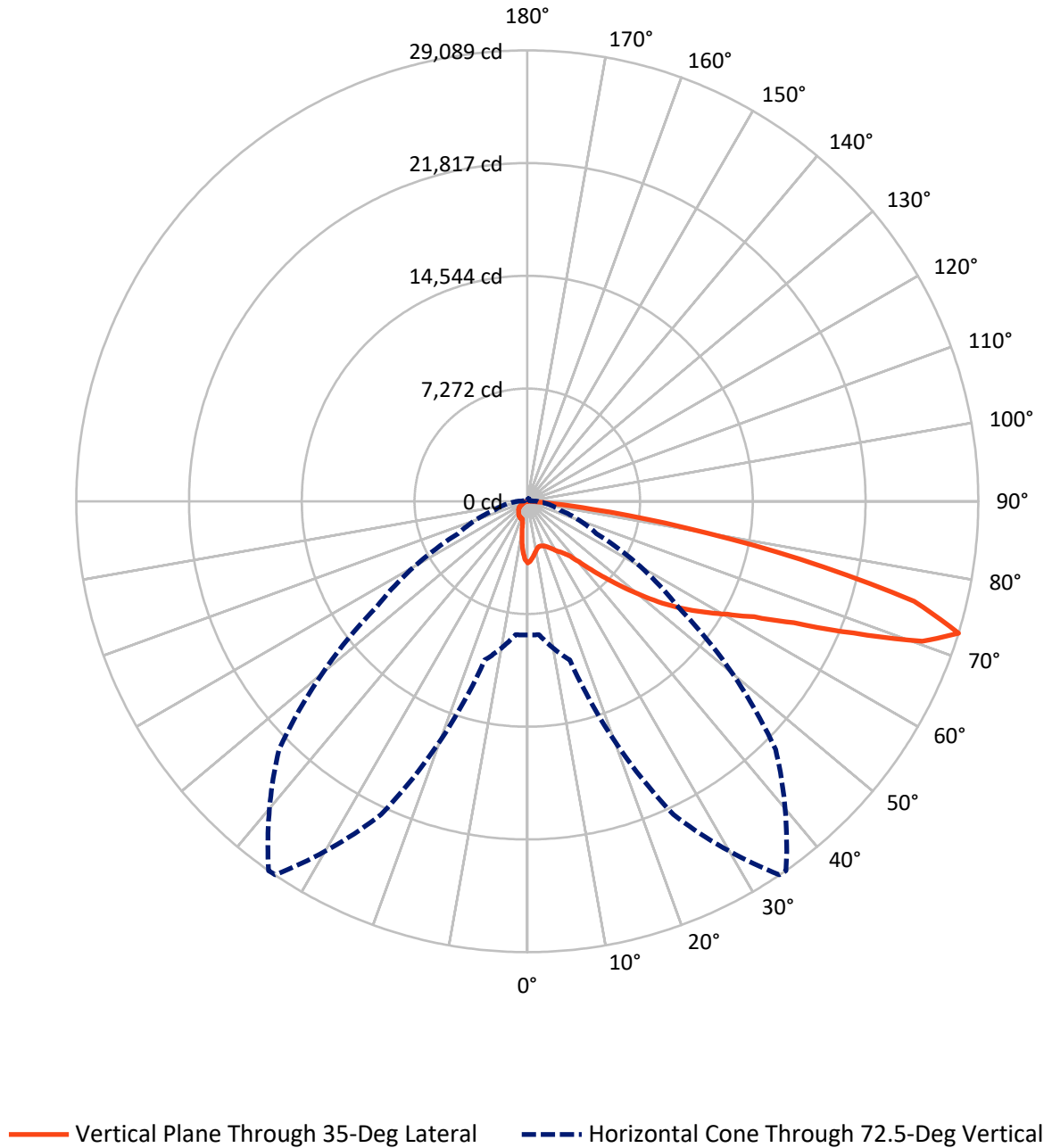
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	3086.7	0.0	3086.7
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	24339.3	0.0	24339.3
	% Fixture	88.7	0.0	88.7
Total	Lumens	27426.0	0.0	27426.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.6	1.2
10°-20°	764.1	2.8
20°-30°	1241.3	4.5
30°-40°	2071.1	7.6
40°-50°	3918.6	14.3
50°-60°	6226.6	22.7
60°-70°	7702.7	28.1
70°-80°	4788.1	17.5
80°-90°	386.9	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°	27426.0	100.0
0°-180°	27426.0	100.0

Coefficient of Utilization



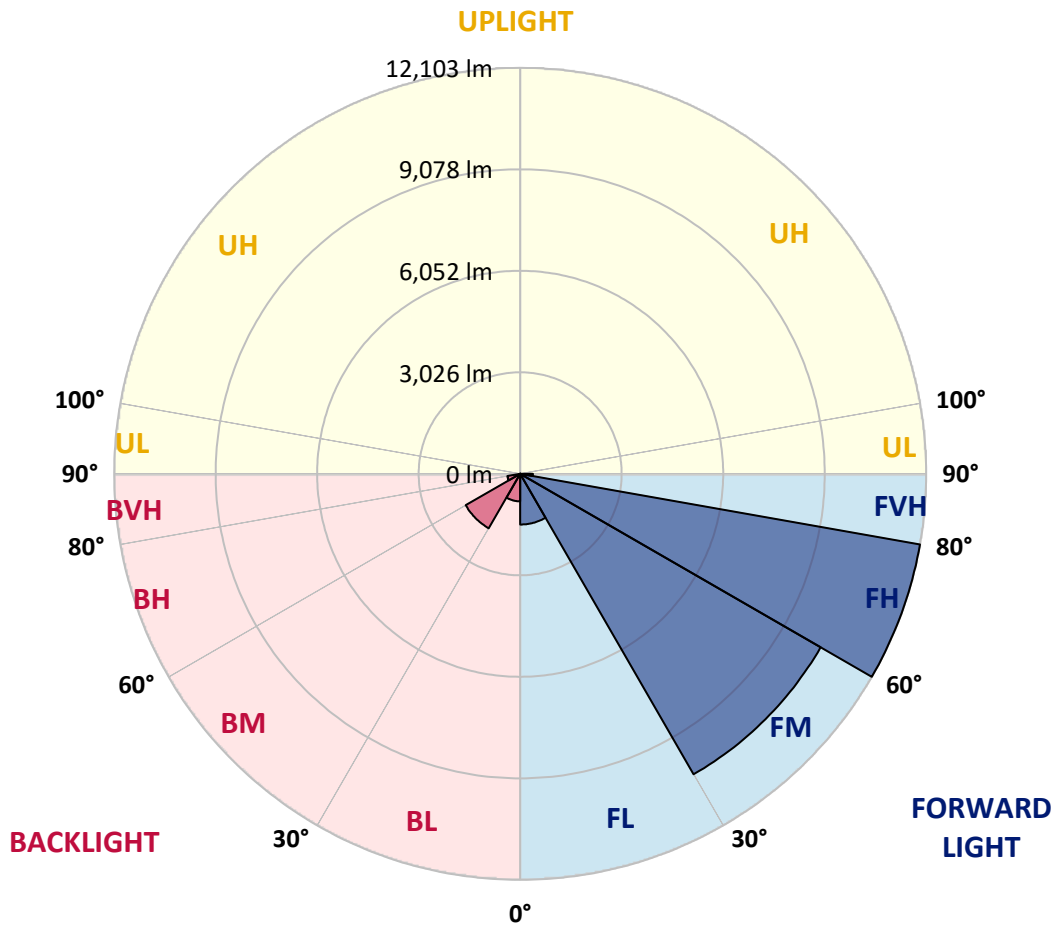
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1511.9	5.5			
FM (30°-60°)	10342.3	37.7			
FH (60°-80°)	12103.4	44.1			G5
FVH (80°-90°)	381.7	1.4			G3/500
BL (0°-30°)	820.2	3.0	B2/1000		
BM (30°-60°)	1873.9	6.8	B2/2500		
BH (60°-80°)	387.3	1.4	B1/500		G1/500
BVH (80°-90°)	5.3	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°	3974.9	3974.9	3974.9	3974.9	3974.9	3974.9	3974.9	3974.9	3974.9	3974.9	3974.9
2.5°	3798.1	3830.3	3836.3	3846.3	3846.3	3858.4	3878.5	3906.6	3952.8	3977.0	3993.0
5°	3500.7	3524.8	3554.9	3579.1	3625.3	3631.3	3709.7	3786.0	3892.6	3972.9	4029.2
7.5°	3201.3	3229.4	3269.6	3327.9	3388.1	3406.2	3524.8	3653.4	3822.2	3972.9	4067.4
10°	2990.3	2992.3	3028.4	3086.7	3183.2	3205.3	3350.0	3532.8	3743.8	3948.8	4103.6
12.5°	2871.7	2885.8	2901.8	2946.0	3038.5	3052.6	3207.3	3422.3	3665.5	3934.8	4145.8
15°	2871.7	2881.7	2891.8	2913.9	2988.2	3000.3	3137.0	3352.0	3625.3	3940.8	4214.1
17.5°	2901.8	2917.9	2909.9	2936.0	3014.4	3022.4	3143.0	3331.9	3623.3	3979.0	4318.6
20°	2974.2	2986.2	2970.2	2986.2	3064.6	3080.7	3205.3	3370.1	3657.4	4045.3	4449.2
22.5°	3088.7	3094.8	3056.6	3068.6	3149.0	3169.1	3313.8	3478.6	3739.8	4151.8	4624.0
25°	3233.4	3245.5	3187.2	3201.3	3277.6	3301.7	3468.5	3641.4	3870.4	4298.5	4847.1
27.5°	3400.2	3406.2	3356.0	3354.0	3452.5	3486.6	3655.4	3842.3	4045.3	4483.4	5128.4
30°	3591.1	3609.2	3561.0	3552.9	3677.5	3705.7	3872.5	4089.5	4302.5	4760.7	5528.4
32.5°	3741.8	3755.9	3727.8	3747.9	3874.5	3896.6	4135.7	4439.2	4706.4	5154.6	6072.9
35°	3958.9	3966.9	3902.6	3938.8	4083.5	4139.7	4495.4	4929.5	5214.9	5648.9	6784.3
37.5°	4744.6	4744.6	4471.3	4292.5	4431.1	4481.4	4987.8	5546.4	5841.8	6312.1	7680.6
40°	5831.8	5813.7	5413.8	5048.1	5030.0	5128.4	5689.1	6324.1	6651.7	7107.9	8689.4
42.5°	6991.3	6963.2	6418.6	6056.9	5996.6	6030.7	6499.0	7282.7	7616.3	8078.5	9774.6
45°	8020.2	8012.2	7513.8	7027.5	6919.0	7027.5	7509.8	8404.1	8643.2	9129.5	10857.8
47.5°	8882.3	8882.3	8518.6	8201.1	8144.8	8209.1	8878.3	9648.0	9625.9	10248.9	11912.8
50°	9875.1	9867.0	9521.4	9384.7	9443.0	9533.4	10453.8	10958.2	10642.7	11348.1	12855.3
52.5°	10570.4	10618.6	10500.0	10477.9	10775.4	10932.1	12053.5	12240.3	11553.1	12391.1	13560.6
55°	11121.0	11177.3	11313.9	11468.7	12041.4	12246.4	13602.8	13456.1	12314.7	13295.4	13966.6
57.5°	11900.7	11820.3	12031.3	12336.8	13263.2	13510.4	15104.0	14603.6	12927.6	14028.9	14010.8
60°	12847.2	12859.3	12895.5	13281.3	14483.0	14800.5	16583.0	15688.8	13321.5	14479.0	13520.4
62.5°	13984.7	14002.7	14077.1	14669.9	16120.8	16420.3	18158.6	16577.0	13502.4	14352.4	12254.4
65°	13906.3	13982.6	14812.6	16840.3	18610.7	18906.1	19997.3	17200.0	13229.1	13194.9	9977.6
67.5°	12668.4	12793.0	14181.6	19432.6	22364.6	22694.2	22219.9	17322.6	12049.4	10260.9	6509.0
70°	11044.6	11088.9	12758.8	21763.7	26711.3	27044.9	24209.4	15974.1	9143.6	5723.3	2915.9
72.5°	8625.1	8635.2	10594.5	22304.3	29070.6	29088.7	22648.0	11858.5	4917.4	2198.5	1012.8
75°	6161.4	6101.1	7095.8	18088.2	25575.9	25780.9	16978.9	5562.5	1879.0	1039.0	504.4
77.5°	3303.7	3370.1	4015.1	10727.1	17668.2	18017.9	9264.2	1603.6	956.6	707.4	333.6
80°	1020.9	1077.1	1645.8	4911.4	10007.7	10218.7	3434.4	713.4	667.2	504.4	219.0
82.5°	321.5	333.6	767.7	2063.8	4153.8	4250.3	994.7	403.9	456.2	333.6	128.6
85°	92.4	94.5	341.6	769.7	1026.9	1047.0	279.3	156.7	261.2	207.0	66.3
87.5°	10.0	32.2	128.6	128.6	90.4	88.4	30.1	34.2	74.4	26.1	12.1
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°	3974.9	3974.9	3974.9	3974.9	3974.9	3974.9	3974.9	3974.9	3974.9	3974.9	3974.9
2.5°	3983.0	3985.0	3958.9	3914.7	3866.4	3826.2	3776.0	3735.8	3707.7	3699.6	3713.7
5°	4011.1	3997.1	3922.7	3788.1	3627.3	3488.6	3333.9	3211.3	3130.9	3096.8	3108.8
7.5°	4053.3	4013.1	3850.4	3585.1	3277.6	3004.3	2727.0	2512.0	2375.3	2307.0	2317.0
10°	4089.5	4009.1	3729.8	3291.7	2821.4	2407.5	2033.7	1774.5	1629.8	1561.4	1563.5
12.5°	4123.7	4007.1	3573.0	2944.0	2307.0	1800.6	1452.9	1324.3	1284.1	1270.1	1266.0
15°	4188.0	4013.1	3376.1	2546.1	1794.6	1360.5	1233.9	1231.9	1239.9	1235.9	1233.9
17.5°	4276.4	4019.2	3153.0	2124.1	1384.6	1199.7	1193.7	1211.8	1223.8	1217.8	1215.8
20°	4390.9	4043.3	2915.9	1706.1	1189.7	1159.5	1173.6	1189.7	1199.7	1189.7	1187.7
22.5°	4551.7	4085.5	2656.7	1370.5	1127.4	1135.4	1147.5	1165.6	1175.6	1161.5	1159.5
25°	4748.6	4151.8	2401.4	1191.7	1097.2	1107.3	1125.4	1145.5	1157.5	1143.5	1141.4
27.5°	5003.9	4258.3	2166.3	1151.5	1067.1	1073.1	1099.2	1129.4	1145.5	1127.4	1127.4
30°	5373.6	4433.1	1963.4	1169.6	1049.0	1034.9	1071.1	1113.3	1131.4	1115.3	1113.3
32.5°	5864.0	4680.3	1838.8	1197.7	1041.0	990.7	1024.9	1079.1	1109.3	1099.2	1099.2
35°	6507.0	5056.1	1790.5	1229.9	1034.9	944.5	968.6	1026.9	1079.1	1089.2	1089.2
37.5°	7286.7	5578.6	1804.6	1243.9	1016.8	906.3	918.4	968.6	1036.9	1069.1	1077.1
40°	8173.0	6187.5	1885.0	1229.9	996.8	874.2	876.2	914.4	974.6	1022.9	1039.0
42.5°	9087.3	6898.9	2033.7	1177.6	978.7	846.0	840.0	866.1	906.3	940.5	954.5
45°	9957.5	7630.4	2180.4	1105.3	956.6	817.9	803.8	813.9	821.9	836.0	844.0
47.5°	10717.1	8144.8	2138.2	1039.0	926.4	785.7	761.6	757.6	733.5	731.5	729.5
50°	11241.6	8257.4	1899.1	972.6	882.2	749.6	711.4	687.3	645.1	625.0	627.0
52.5°	11408.4	7813.2	1551.4	906.3	809.9	701.3	647.1	608.9	556.7	538.6	536.6
55°	11187.3	6943.1	1239.9	825.9	709.4	637.0	576.7	526.5	484.3	462.2	462.2
57.5°	10646.7	5835.8	980.7	731.5	602.9	564.7	504.4	454.2	418.0	395.9	391.9
60°	9750.5	4634.1	775.7	619.0	514.5	486.3	424.0	391.9	359.7	333.6	327.6
62.5°	8390.0	3307.8	608.9	490.3	430.0	397.9	361.7	337.6	299.4	263.3	257.2
65°	6547.2	2023.6	470.2	359.7	345.6	329.6	307.5	285.4	239.1	203.0	196.9
67.5°	4129.7	958.6	335.6	271.3	273.3	265.3	255.2	237.1	203.0	170.8	166.8
70°	1818.7	464.2	221.1	207.0	203.0	203.0	211.0	205.0	172.8	142.7	136.7
72.5°	619.0	249.2	164.8	156.7	146.7	144.7	176.8	170.8	138.7	110.5	104.5
75°	323.5	166.8	120.6	112.5	88.4	106.5	140.7	132.6	98.5	72.3	66.3
77.5°	211.0	118.6	82.4	72.3	50.2	70.3	104.5	92.4	58.3	36.2	32.2
80°	132.6	78.4	48.2	34.2	24.1	38.2	56.3	40.2	22.1	8.0	6.0
82.5°	70.3	40.2	18.1	12.1	10.0	12.1	14.1	10.0	4.0	0.0	0.0
85°	28.1	14.1	6.0	4.0	2.0	0.0	4.0	2.0	0.0	0.0	0.0
87.5°	10.0	2.0	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)