

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: P885360

Luminaire Tested: **NAV-SB6C-835-U-T4FT-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885360
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-835-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 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: 29039 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

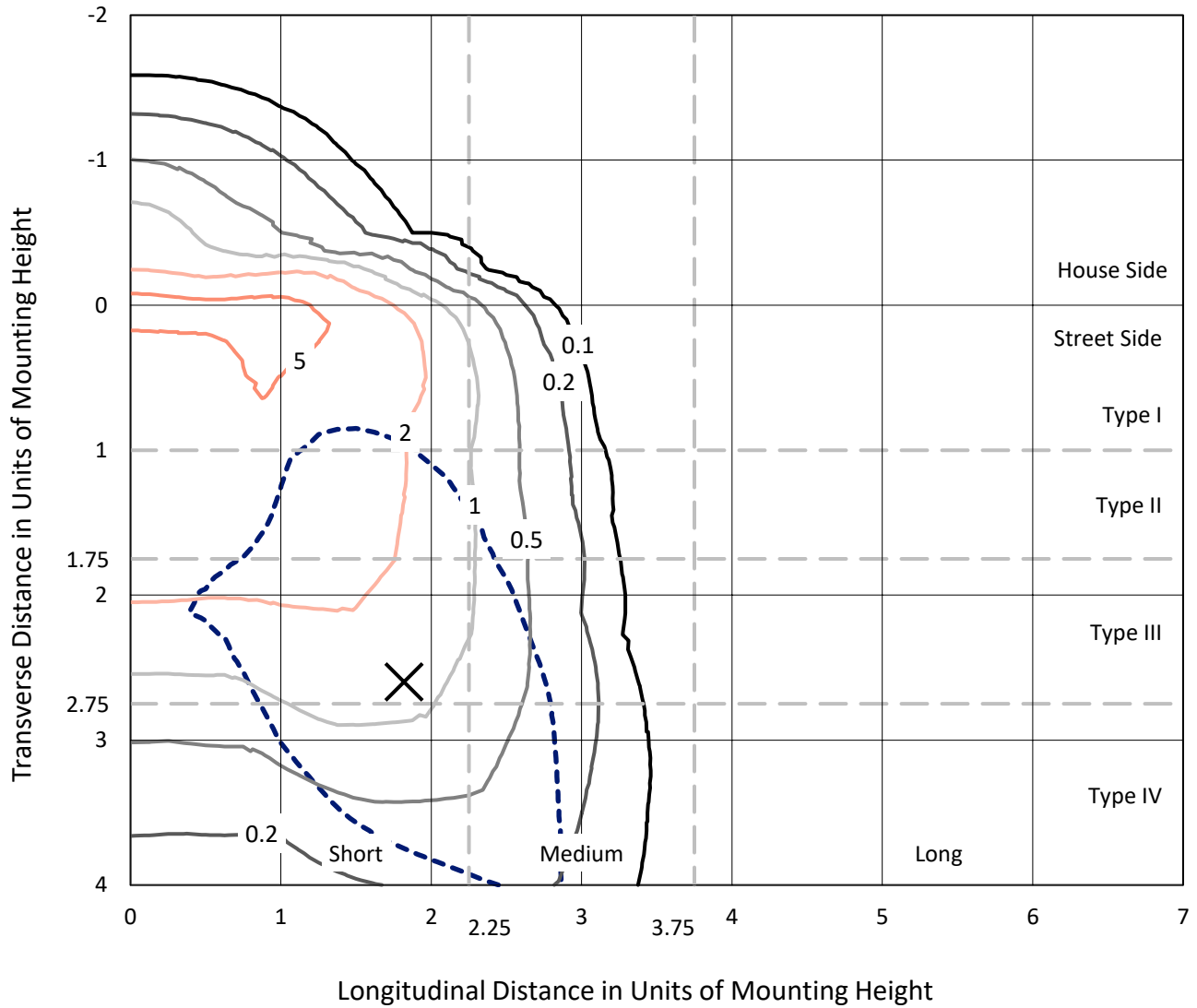
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

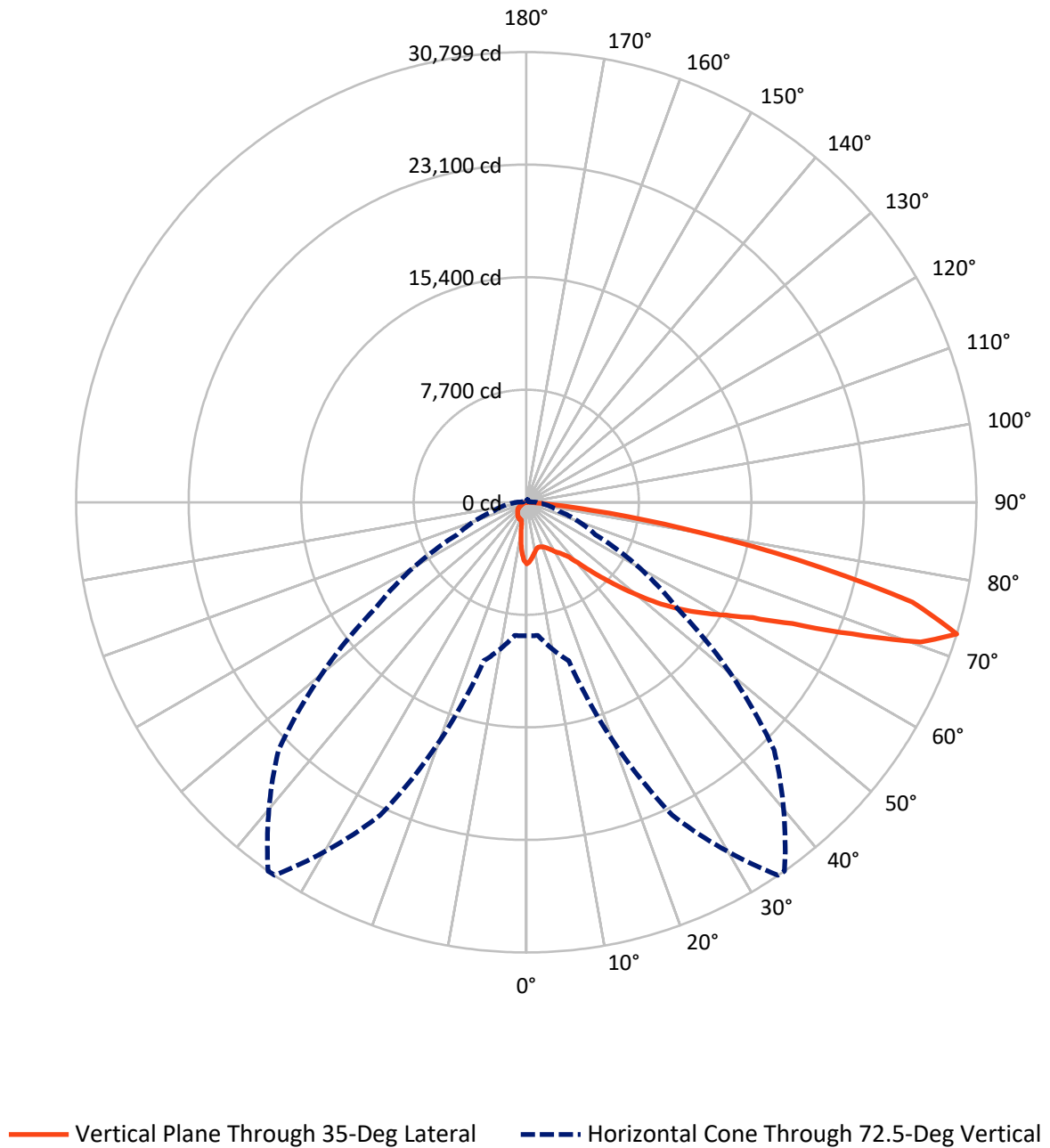
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	3268.2	0.0	3268.2
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	25770.8	0.0	25770.8
	% Fixture	88.7	0.0	88.7
Total	Lumens	29039.0	0.0	29039.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.8	1.2
10°-20°	809.1	2.8
20°-30°	1314.3	4.5
30°-40°	2192.9	7.6
40°-50°	4149.0	14.3
50°-60°	6592.8	22.7
60°-70°	8155.7	28.1
70°-80°	5069.7	17.5
80°-90°	409.7	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°	29039.0	100.0
0°-180°	29039.0	100.0

Coefficient of Utilization



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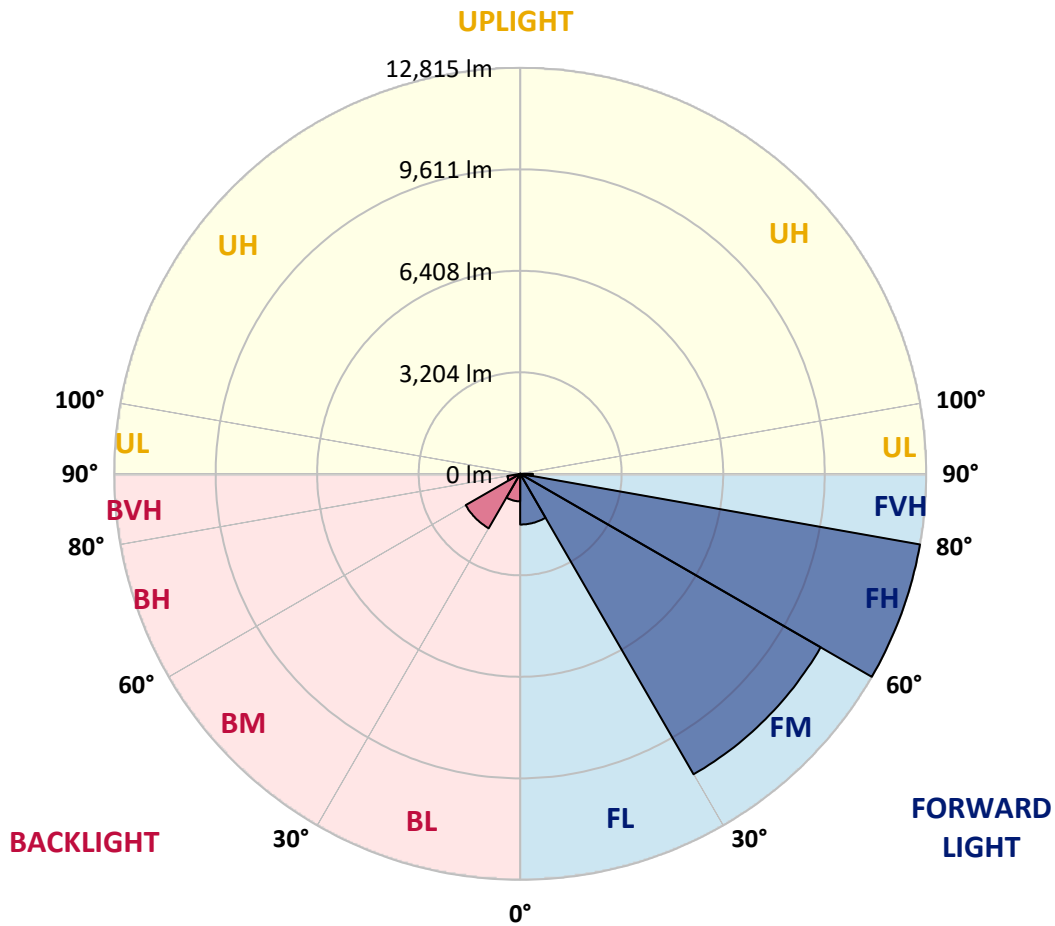
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1600.8	5.5			
FM (30°-60°)	10950.6	37.7			
FH (60°-80°)	12815.3	44.1			G5
FVH (80°-90°)	404.1	1.4			G3/500
BL (0°-30°)	868.4	3.0	B2/1000		
BM (30°-60°)	1984.1	6.8	B2/2500		
BH (60°-80°)	410.1	1.4	B1/500		G1/500
BVH (80°-90°)	5.6	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°	4208.7	4208.7	4208.7	4208.7	4208.7	4208.7	4208.7	4208.7	4208.7	4208.7	4208.7
2.5°	4021.5	4055.5	4061.9	4072.5	4072.5	4085.3	4106.6	4136.4	4185.3	4210.9	4227.9
5°	3706.6	3732.1	3764.0	3789.6	3838.5	3844.9	3927.9	4008.7	4121.5	4206.6	4266.2
7.5°	3389.5	3419.3	3461.9	3523.6	3587.4	3606.6	3732.1	3868.3	4047.0	4206.6	4306.6
10°	3166.1	3168.2	3206.5	3268.3	3370.4	3393.8	3547.0	3740.6	3964.0	4181.1	4344.9
12.5°	3040.6	3055.5	3072.5	3119.3	3217.2	3232.1	3395.9	3623.6	3881.0	4166.2	4389.6
15°	3040.6	3051.2	3061.9	3085.3	3164.0	3176.8	3321.4	3549.1	3838.5	4172.6	4461.9
17.5°	3072.5	3089.5	3081.0	3108.7	3191.7	3200.2	3327.8	3527.8	3836.4	4213.0	4572.6
20°	3149.1	3161.9	3144.8	3161.9	3244.8	3261.9	3393.8	3568.3	3872.5	4283.2	4710.9
22.5°	3270.4	3276.8	3236.3	3249.1	3334.2	3355.5	3508.7	3683.2	3959.8	4396.0	4896.0
25°	3423.6	3436.3	3374.6	3389.5	3470.4	3495.9	3672.5	3855.5	4098.1	4551.3	5132.2
27.5°	3600.2	3606.6	3553.4	3551.2	3655.5	3691.7	3870.4	4068.3	4283.2	4747.0	5430.1
30°	3802.3	3821.5	3770.4	3761.9	3893.8	3923.6	4100.2	4330.0	4555.6	5040.7	5853.5
32.5°	3961.9	3976.8	3947.0	3968.3	4102.3	4125.7	4378.9	4700.2	4983.2	5457.7	6430.1
35°	4191.7	4200.2	4132.1	4170.4	4323.6	4383.2	4759.8	5219.4	5521.6	5981.2	7183.3
37.5°	5023.7	5023.7	4734.3	4544.9	4691.7	4744.9	5281.1	5872.6	6185.4	6683.3	8132.3
40°	6174.8	6155.6	5732.2	5345.0	5325.8	5430.1	6023.7	6696.1	7042.9	7525.9	9200.5
42.5°	7402.5	7372.7	6796.1	6413.1	6349.3	6385.4	6881.2	7711.0	8064.2	8553.6	10349.5
45°	8491.9	8483.4	7955.7	7440.8	7325.9	7440.8	7951.5	8898.3	9151.5	9666.4	11496.3
47.5°	9404.7	9404.7	9019.6	8683.4	8623.8	8691.9	9400.5	10215.4	10192.0	10851.6	12613.4
50°	10455.9	10447.3	10081.4	9936.7	9998.4	10094.1	11068.6	11602.7	11268.7	12015.5	13611.3
52.5°	11192.1	11243.1	11117.6	11094.2	11409.1	11575.1	12762.4	12960.2	12232.5	13119.8	14358.2
55°	11775.1	11834.6	11979.3	12143.2	12749.6	12966.6	14402.9	14247.5	13039.0	14077.3	14788.0
57.5°	12600.6	12515.5	12738.9	13062.4	14043.3	14305.0	15992.3	15462.5	13687.9	14853.9	14834.8
60°	13602.8	13615.6	13653.9	14062.4	15334.8	15671.0	17558.3	16611.5	14105.0	15330.6	14315.6
62.5°	14807.1	14826.3	14905.0	15532.7	17069.0	17386.0	19226.5	17552.0	14296.5	15196.5	12975.1
65°	14724.2	14805.0	15683.8	17830.7	19705.3	20018.0	21173.4	18211.6	14007.1	13970.9	10564.4
67.5°	13413.4	13545.4	15015.7	20575.5	23679.9	24028.9	23526.7	18341.4	12758.1	10864.4	6891.8
70°	11694.2	11741.0	13509.2	23043.7	28282.3	28635.5	25633.2	16913.6	9681.3	6059.9	3087.4
72.5°	9132.4	9143.0	11217.6	23616.1	30780.3	30799.4	23979.9	12556.0	5206.6	2327.8	1072.4
75°	6523.7	6459.9	7513.1	19152.0	27080.1	27297.1	17977.5	5889.7	1989.5	1100.1	534.1
77.5°	3498.1	3568.3	4251.3	11358.0	18707.3	19077.6	9809.0	1698.0	1012.8	749.0	353.2
80°	1080.9	1140.5	1742.6	5200.3	10596.3	10819.7	3636.4	755.4	706.4	534.1	231.9
82.5°	340.4	353.2	812.8	2185.2	4398.1	4500.2	1053.2	427.7	483.0	353.2	136.2
85°	97.9	100.0	361.7	814.9	1087.3	1108.6	295.8	166.0	276.6	219.2	70.2
87.5°	10.6	34.0	136.2	136.2	95.7	93.6	31.9	36.2	78.7	27.7	12.8
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4208.7	4208.7	4208.7	4208.7	4208.7	4208.7	4208.7	4208.7	4208.7	4208.7	4208.7
2.5°	4217.2	4219.4	4191.7	4144.9	4093.8	4051.3	3998.1	3955.5	3925.7	3917.2	3932.1
5°	4247.0	4232.1	4153.4	4010.8	3840.6	3693.8	3530.0	3400.2	3315.1	3278.9	3291.7
7.5°	4291.7	4249.2	4076.8	3795.9	3470.4	3181.0	2887.4	2659.7	2515.0	2442.7	2453.3
10°	4330.0	4244.9	3949.1	3485.3	2987.4	2549.1	2153.3	1878.8	1725.6	1653.3	1655.4
12.5°	4366.2	4242.8	3783.2	3117.2	2442.7	1906.5	1538.4	1402.2	1359.6	1344.7	1340.5
15°	4434.3	4249.2	3574.6	2695.9	1900.1	1440.5	1306.4	1304.3	1312.8	1308.6	1306.4
17.5°	4527.9	4255.5	3338.5	2249.1	1466.0	1270.3	1263.9	1283.0	1295.8	1289.4	1287.3
20°	4649.2	4281.1	3087.4	1806.5	1259.6	1227.7	1242.6	1259.6	1270.3	1259.6	1257.5
22.5°	4819.4	4325.8	2812.9	1451.1	1193.7	1202.2	1215.0	1234.1	1244.7	1229.8	1227.7
25°	5027.9	4396.0	2542.7	1261.8	1161.8	1172.4	1191.5	1212.8	1225.6	1210.7	1208.6
27.5°	5298.1	4508.7	2293.7	1219.2	1129.8	1136.2	1163.9	1195.8	1212.8	1193.7	1193.7
30°	5689.7	4693.9	2078.8	1238.4	1110.7	1095.8	1134.1	1178.8	1197.9	1180.9	1178.8
32.5°	6208.8	4955.6	1946.9	1268.1	1102.2	1049.0	1085.2	1142.6	1174.5	1163.9	1163.9
35°	6889.7	5353.5	1895.8	1302.2	1095.8	1000.1	1025.6	1087.3	1142.6	1153.3	1153.3
37.5°	7715.3	5906.7	1910.7	1317.1	1076.7	959.6	972.4	1025.6	1097.9	1132.0	1140.5
40°	8653.6	6551.4	1995.8	1302.2	1055.4	925.6	927.7	968.1	1032.0	1083.0	1100.1
42.5°	9621.8	7304.6	2153.3	1246.9	1036.2	895.8	889.4	917.1	959.6	995.8	1010.7
45°	10543.1	8079.1	2308.6	1170.3	1012.8	866.0	851.1	861.7	870.3	885.2	893.7
47.5°	11347.4	8623.8	2263.9	1100.1	980.9	832.0	806.4	802.2	776.6	774.5	772.4
50°	11902.7	8743.0	2010.7	1029.8	934.1	793.7	753.2	727.7	683.0	661.7	663.9
52.5°	12079.3	8272.8	1642.6	959.6	857.5	742.6	685.1	644.7	589.4	570.2	568.1
55°	11845.3	7351.4	1312.8	874.5	751.1	674.5	610.7	557.5	512.8	489.4	489.4
57.5°	11272.9	6179.0	1038.4	774.5	638.3	597.9	534.1	480.9	442.6	419.2	414.9
60°	10323.9	4906.6	821.3	655.4	544.7	514.9	449.0	414.9	380.9	353.2	346.8
62.5°	8883.4	3502.3	644.7	519.2	455.3	421.3	383.0	357.5	317.0	278.7	272.4
65°	6932.3	2142.7	497.9	380.9	366.0	349.0	325.5	302.1	253.2	214.9	208.5
67.5°	4372.6	1014.9	355.3	287.2	289.4	280.9	270.2	251.1	214.9	180.9	176.6
70°	1925.6	491.5	234.1	219.2	214.9	214.9	223.4	217.0	183.0	151.1	144.7
72.5°	655.4	263.8	174.5	166.0	155.3	153.2	187.2	180.9	146.8	117.0	110.6
75°	342.6	176.6	127.7	119.2	93.6	112.8	148.9	140.4	104.3	76.6	70.2
77.5°	223.4	125.5	87.2	76.6	53.2	74.5	110.6	97.9	61.7	38.3	34.0
80°	140.4	83.0	51.1	36.2	25.5	40.4	59.6	42.6	23.4	8.5	6.4
82.5°	74.5	42.6	19.1	12.8	10.6	12.8	14.9	10.6	4.3	0.0	0.0
85°	29.8	14.9	6.4	4.3	2.1	0.0	4.3	2.1	0.0	0.0	0.0
87.5°	10.6	2.1	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)