

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: P884610

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

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884610
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-SB5C-730-U-T4FT-HSS
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 WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28324 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

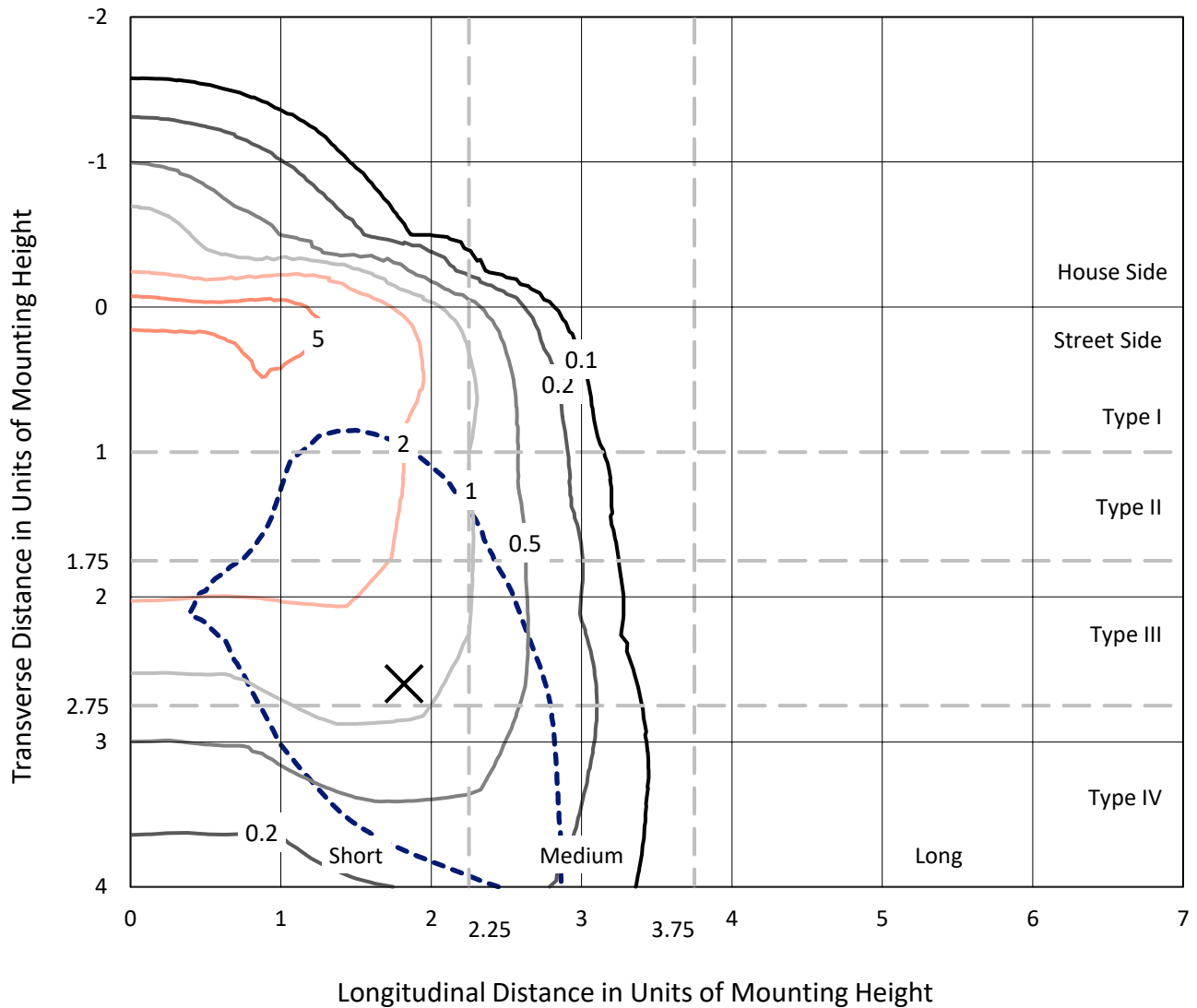
Input Watts (W): 249.5
Input Voltage (V): 120.0
Input Current (Ain): 2.116
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 7.885
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

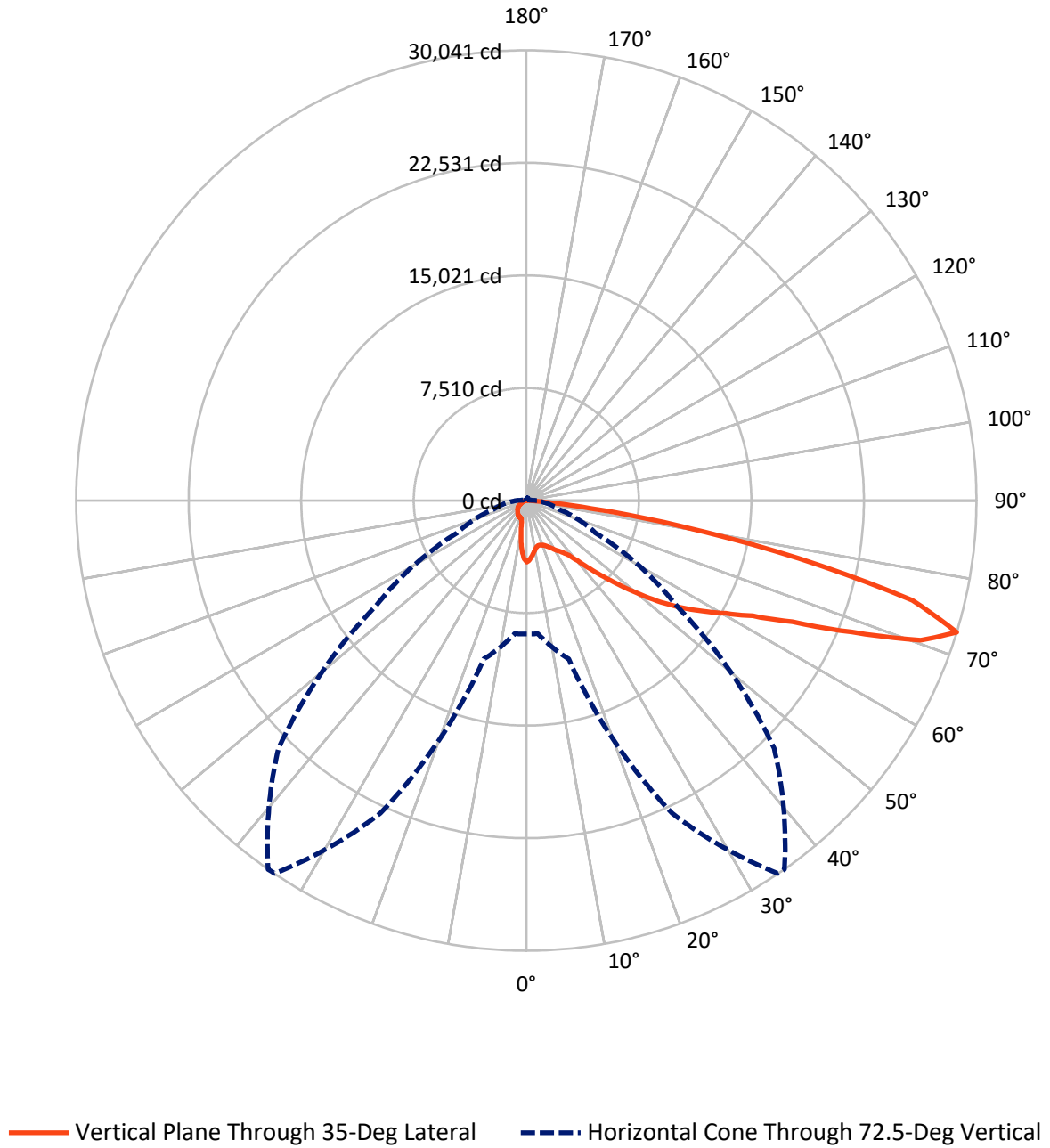
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	3187.7	0.0	3187.7
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	25136.3	0.0	25136.3
	% Fixture	88.7	0.0	88.7
Total	Lumens	28324.0	0.0	28324.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.3	1.2
10°-20°	789.1	2.8
20°-30°	1281.9	4.5
30°-40°	2138.9	7.6
40°-50°	4046.9	14.3
50°-60°	6430.4	22.7
60°-70°	7954.9	28.1
70°-80°	4944.8	17.5
80°-90°	399.6	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°	28324.0	100.0
0°-180°	28324.0	100.0

Coefficient of Utilization



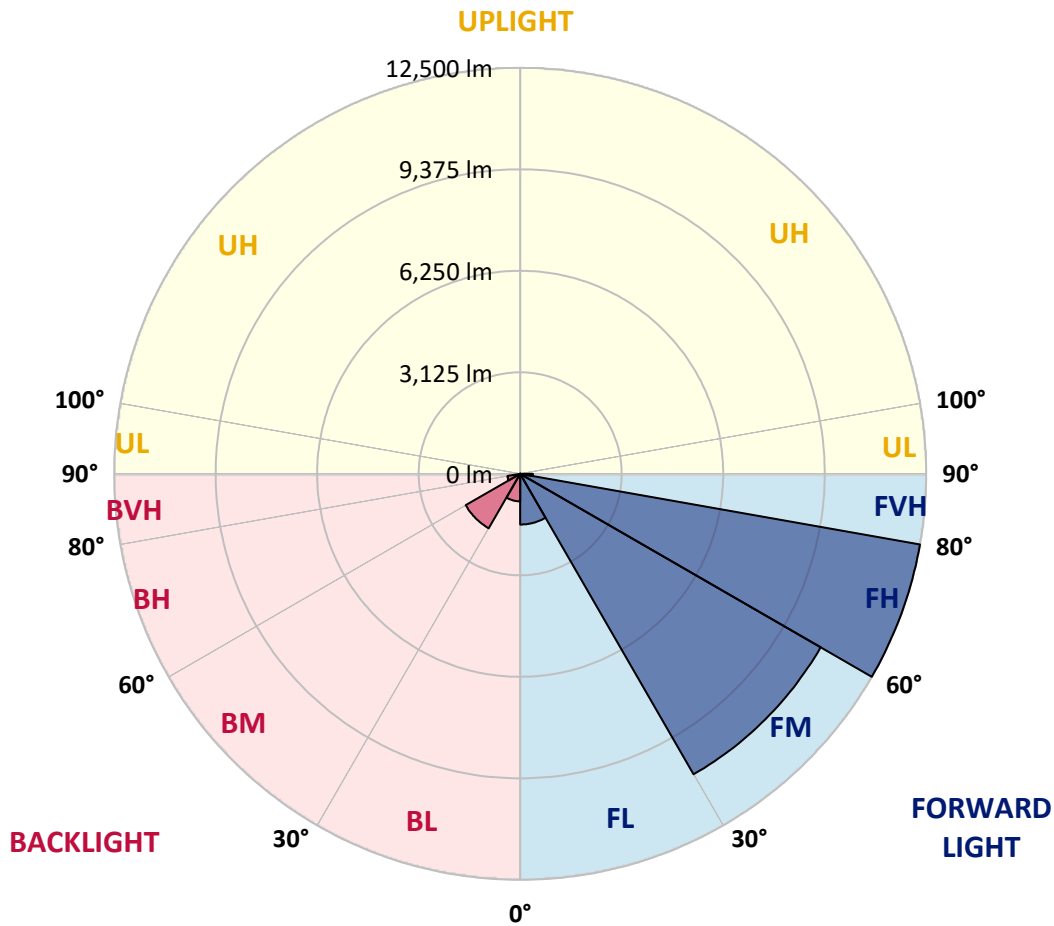
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1561.4	5.5			
FM (30°-60°)	10681.0	37.7			
FH (60°-80°)	12499.7	44.1			G5
FVH (80°-90°)	394.2	1.4			G3/500
BL (0°-30°)	847.0	3.0	B2/1000		
BM (30°-60°)	1935.2	6.8	B2/2500		
BH (60°-80°)	400.0	1.4	B1/500		G1/500
BVH (80°-90°)	5.4	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°	4105.1	4105.1	4105.1	4105.1	4105.1	4105.1	4105.1	4105.1	4105.1	4105.1	4105.1
2.5°	3922.5	3955.7	3961.9	3972.3	3972.3	3984.7	4005.5	4034.5	4082.3	4107.2	4123.8
5°	3615.3	3640.2	3671.3	3696.2	3744.0	3750.2	3831.1	3910.0	4020.0	4103.0	4161.1
7.5°	3306.1	3335.1	3376.6	3436.8	3499.1	3517.8	3640.2	3773.0	3947.4	4103.0	4200.6
10°	3088.2	3090.2	3127.6	3187.8	3287.4	3310.2	3459.7	3648.5	3866.4	4078.1	4237.9
12.5°	2965.7	2980.2	2996.8	3042.5	3138.0	3152.5	3312.3	3534.4	3785.5	4063.6	4281.5
15°	2965.7	2976.1	2986.5	3009.3	3086.1	3098.5	3239.7	3461.7	3744.0	4069.8	4352.1
17.5°	2996.8	3013.4	3005.1	3032.1	3113.1	3121.4	3245.9	3441.0	3741.9	4109.2	4460.0
20°	3071.6	3084.0	3067.4	3084.0	3165.0	3181.6	3310.2	3480.4	3777.2	4177.7	4594.9
22.5°	3189.9	3196.1	3156.6	3169.1	3252.1	3272.9	3422.3	3592.5	3862.3	4287.7	4775.4
25°	3339.3	3351.7	3291.5	3306.1	3384.9	3409.8	3582.1	3760.6	3997.2	4439.2	5005.8
27.5°	3511.5	3517.8	3465.9	3463.8	3565.5	3600.8	3775.1	3968.1	4177.7	4630.2	5296.4
30°	3708.7	3727.4	3677.6	3669.3	3797.9	3827.0	3999.3	4223.4	4443.4	4916.6	5709.4
32.5°	3864.4	3878.9	3849.8	3870.6	4001.3	4024.2	4271.1	4584.5	4860.5	5323.3	6271.8
35°	4088.5	4096.8	4030.4	4067.7	4217.2	4275.3	4642.6	5090.9	5385.6	5833.9	7006.5
37.5°	4900.0	4900.0	4617.7	4433.0	4576.2	4628.1	5151.1	5728.0	6033.1	6518.8	7932.1
40°	6022.7	6004.1	5591.1	5213.3	5194.7	5296.4	5875.4	6531.2	6869.5	7340.6	8973.9
42.5°	7220.2	7191.2	6628.8	6255.2	6192.9	6228.2	6711.8	7521.2	7865.7	8343.0	10094.6
45°	8282.8	8274.5	7759.8	7257.6	7145.5	7257.6	7755.7	8679.2	8926.2	9428.4	11213.3
47.5°	9173.2	9173.2	8797.5	8469.6	8411.5	8477.9	9169.0	9963.9	9941.1	10584.4	12302.8
50°	10198.4	10190.1	9833.1	9692.0	9752.2	9845.6	10796.1	11317.0	10991.2	11719.7	13276.2
52.5°	10916.5	10966.3	10843.8	10821.0	11128.2	11290.1	12448.1	12641.1	11931.3	12796.8	14004.6
55°	11485.1	11543.3	11684.4	11844.2	12435.7	12647.4	14048.2	13896.7	12717.9	13730.7	14423.9
57.5°	12290.4	12207.4	12425.3	12740.7	13697.5	13952.8	15598.5	15081.8	13350.9	14488.2	14469.5
60°	13267.9	13280.3	13317.7	13716.2	14957.2	15285.2	17126.0	16202.5	13757.7	14953.1	13963.1
62.5°	14442.6	14461.2	14538.0	15150.3	16648.7	16957.9	18753.1	17119.8	13944.5	14822.3	12655.7
65°	14361.6	14440.5	15297.6	17391.7	19220.1	19525.2	20652.1	17763.2	13662.2	13626.9	10304.3
67.5°	13083.2	13211.9	14645.9	20068.9	23096.9	23437.2	22947.5	17889.8	12444.0	10596.9	6722.1
70°	11406.3	11451.9	13176.6	22476.3	27585.9	27930.4	25002.1	16497.2	9443.0	5910.7	3011.4
72.5°	8907.5	8917.9	10941.4	23034.6	30022.4	30041.1	23389.5	12246.8	5078.4	2270.5	1046.0
75°	6363.1	6300.8	7328.2	18680.5	26413.3	26625.0	17534.9	5744.6	1940.5	1073.0	520.9
77.5°	3411.9	3480.4	4146.6	11078.4	18246.7	18607.8	9567.5	1656.2	987.9	730.5	344.5
80°	1054.3	1112.4	1699.7	5072.2	10335.4	10553.3	3546.8	736.8	689.0	520.9	226.2
82.5°	332.1	344.5	792.8	2131.4	4289.8	4389.4	1027.3	417.2	471.1	344.5	132.8
85°	95.5	97.5	352.8	794.9	1060.5	1081.3	288.5	161.9	269.8	213.8	68.5
87.5°	10.4	33.2	132.8	132.8	93.4	91.3	31.1	35.3	76.8	27.0	12.5
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°	4105.1	4105.1	4105.1	4105.1	4105.1	4105.1	4105.1	4105.1	4105.1	4105.1	4105.1
2.5°	4113.4	4115.5	4088.5	4042.8	3993.0	3951.5	3899.6	3858.1	3829.1	3820.8	3835.3
5°	4142.5	4127.9	4051.1	3912.1	3746.1	3602.9	3443.1	3316.5	3233.4	3198.2	3210.6
7.5°	4186.0	4144.5	3976.4	3702.5	3384.9	3102.7	2816.3	2594.2	2453.1	2382.5	2392.9
10°	4223.4	4140.4	3851.9	3399.5	2913.8	2486.3	2100.3	1832.6	1683.1	1612.6	1614.6
12.5°	4258.7	4138.3	3690.0	3040.4	2382.5	1859.5	1500.5	1367.7	1326.2	1311.6	1307.5
15°	4325.1	4144.5	3486.6	2629.5	1853.3	1405.0	1274.3	1272.2	1280.5	1276.4	1274.3
17.5°	4416.4	4150.8	3256.3	2193.7	1429.9	1239.0	1232.8	1251.5	1263.9	1257.7	1255.6
20°	4534.7	4175.7	3011.4	1762.0	1228.6	1197.5	1212.0	1228.6	1239.0	1228.6	1226.5
22.5°	4700.7	4219.2	2743.6	1415.4	1164.3	1172.6	1185.0	1203.7	1214.1	1199.6	1197.5
25°	4904.1	4287.7	2480.1	1230.7	1133.2	1143.5	1162.2	1183.0	1195.4	1180.9	1178.8
27.5°	5167.7	4397.7	2237.3	1189.2	1102.0	1108.3	1135.2	1166.4	1183.0	1164.3	1164.3
30°	5549.6	4578.3	2027.6	1207.9	1083.3	1068.8	1106.2	1149.8	1168.4	1151.8	1149.8
32.5°	6056.0	4833.6	1899.0	1236.9	1075.0	1023.2	1058.4	1114.5	1145.6	1135.2	1135.2
35°	6720.1	5221.7	1849.2	1270.1	1068.8	975.4	1000.3	1060.5	1114.5	1124.9	1124.9
37.5°	7525.3	5761.2	1863.7	1284.7	1050.1	936.0	948.4	1000.3	1070.9	1104.1	1112.4
40°	8440.6	6390.1	1946.7	1270.1	1029.4	902.8	904.9	944.3	1006.6	1056.4	1073.0
42.5°	9384.9	7124.8	2100.3	1216.2	1010.7	873.7	867.5	894.5	936.0	971.3	985.8
45°	10283.5	7880.2	2251.8	1141.5	987.9	844.7	830.2	840.5	848.8	863.4	871.7
47.5°	11068.0	8411.5	2208.2	1073.0	956.7	811.5	786.6	782.4	757.5	755.4	753.4
50°	11609.7	8527.7	1961.2	1004.5	911.1	774.1	734.7	709.8	666.2	645.4	647.5
52.5°	11781.9	8069.1	1602.2	936.0	836.4	724.3	668.3	628.8	574.9	556.2	554.1
55°	11553.6	7170.4	1280.5	853.0	732.6	657.9	595.6	543.7	500.2	477.3	477.3
57.5°	10995.4	6026.9	1012.8	755.4	622.6	583.2	520.9	469.0	431.7	408.8	404.7
60°	10069.7	4785.8	801.1	639.2	531.3	502.2	437.9	404.7	371.5	344.5	338.3
62.5°	8664.7	3416.1	628.8	506.4	444.1	410.9	373.6	348.7	309.2	271.9	265.6
65°	6761.6	2089.9	485.6	371.5	357.0	340.4	317.5	294.7	247.0	209.6	203.4
67.5°	4264.9	990.0	346.6	280.2	282.3	273.9	263.6	244.9	209.6	176.4	172.3
70°	1878.2	479.4	228.3	213.8	209.6	209.6	217.9	211.7	178.5	147.4	141.1
72.5°	639.2	257.3	170.2	161.9	151.5	149.4	182.6	176.4	143.2	114.1	107.9
75°	334.1	172.3	124.5	116.2	91.3	110.0	145.3	137.0	101.7	74.7	68.5
77.5°	217.9	122.4	85.1	74.7	51.9	72.6	107.9	95.5	60.2	37.4	33.2
80°	137.0	80.9	49.8	35.3	24.9	39.4	58.1	41.5	22.8	8.3	6.2
82.5°	72.6	41.5	18.7	12.5	10.4	12.5	14.5	10.4	4.2	0.0	0.0
85°	29.1	14.5	6.2	4.2	2.1	0.0	4.2	2.1	0.0	0.0	0.0
87.5°	10.4	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)