

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: P968851

Luminaire Tested: **NAV-SB5C-750-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968851
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5C-750-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32174.8 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 249.5
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



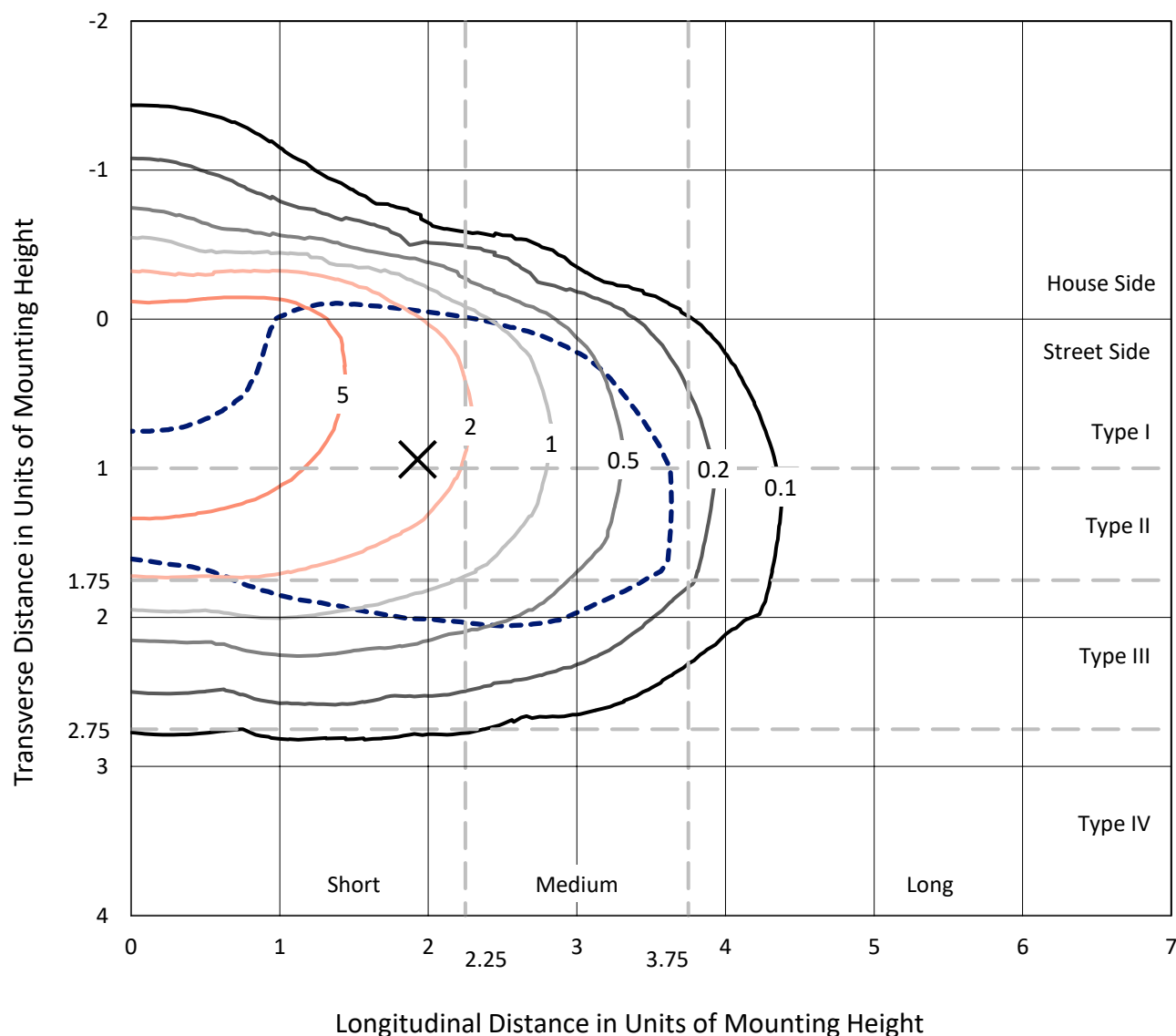
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



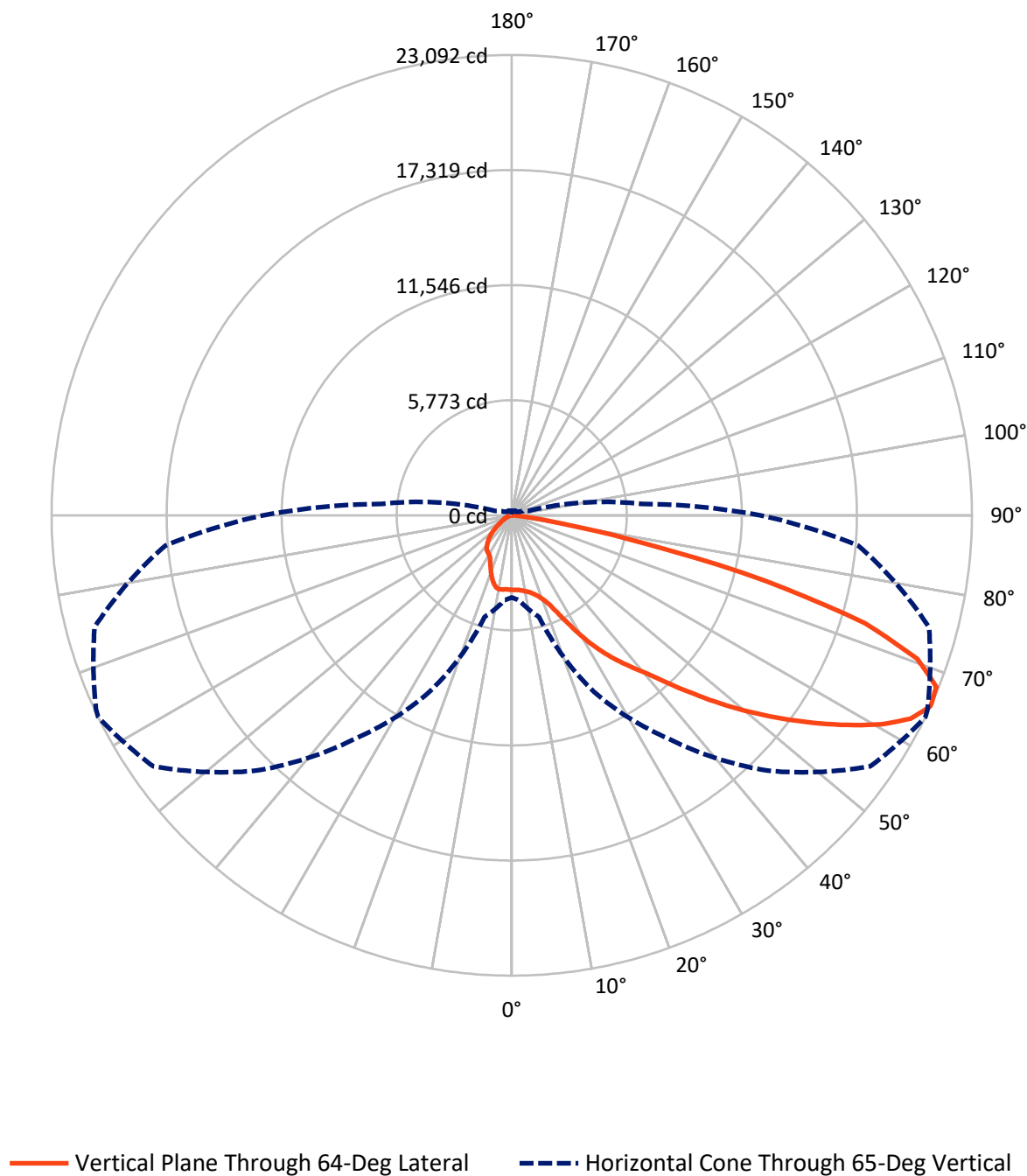
Based on 25 foot mounting height. Maximum calculated value = 9.4 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4302.7	0.0	4302.7
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	27872.0	0.0	27872.0
	% Fixture	86.6	0.0	86.6
Total	Lumens	32174.8	0.0	32174.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.3	1.1
10°-20°	936.4	2.9
20°-30°	1774.5	5.5
30°-40°	3590.7	11.2
40°-50°	6116.8	19.0
50°-60°	8318.4	25.9
60°-70°	7811.4	24.3
70°-80°	3129.6	9.7
80°-90°	151.6	0.5
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°	32174.8	100.0
0°-180°	32174.8	100.0

Coefficient of Utilization



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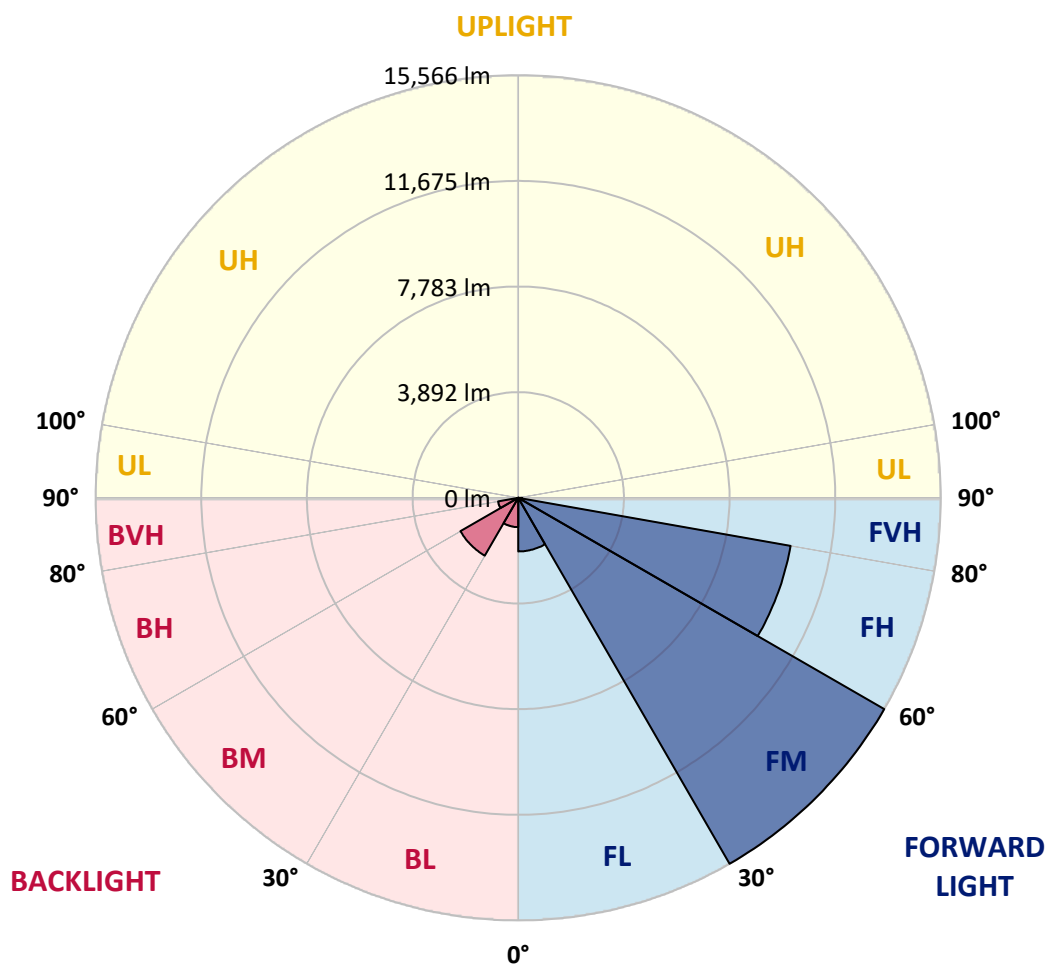
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1975.9	6.1			
FM	(30°-60°)	15566.1	48.4			
FH	(60°-80°)	10185.8	31.7			G4/12000
FVH	(80°-90°)	144.2	0.4			G2/225
BL	(0°-30°)	1080.3	3.4	B3/2500		
BM	(30°-60°)	2459.8	7.6	B2/2500		
BH	(60°-80°)	755.2	2.3	B2/1000		G2/1000
BVH	(80°-90°)	7.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3742.3	3742.3	3742.3	3742.3	3742.3	3742.3	3742.3	3742.3	3742.3	3742.3	3742.3
2.5°	3729.4	3755.2	3748.7	3742.3	3740.1	3744.4	3746.6	3744.4	3744.4	3744.4	3746.6
5°	3658.1	3679.7	3679.7	3694.8	3716.3	3742.3	3761.6	3766.0	3770.3	3776.8	3774.6
7.5°	3522.2	3539.5	3552.4	3602.1	3656.0	3725.0	3783.3	3813.4	3817.7	3841.5	3850.1
10°	3429.5	3451.1	3472.6	3524.4	3602.1	3705.6	3804.8	3878.2	3889.0	3945.0	3970.8
12.5°	3425.1	3446.8	3474.7	3530.9	3621.4	3731.5	3852.3	3957.9	3977.4	4059.3	4113.2
15°	3470.4	3496.4	3522.2	3591.3	3688.4	3822.0	3951.5	4083.1	4102.5	4218.9	4277.2
17.5°	3563.2	3597.7	3617.1	3686.2	3789.7	3938.6	4108.9	4259.9	4277.2	4413.0	4486.4
20°	3746.6	3787.6	3794.0	3850.1	3951.5	4111.1	4313.8	4501.5	4523.0	4678.4	4760.3
22.5°	4126.2	4184.5	4132.7	4160.7	4251.3	4410.9	4631.0	4868.1	4898.4	5075.2	5148.6
25°	4794.8	4876.8	4743.1	4695.6	4734.5	4900.5	5176.7	5476.5	5510.9	5653.3	5690.0
27.5°	6108.4	6002.7	5800.0	5601.5	5485.1	5580.0	5890.6	6261.5	6304.7	6442.7	6399.6
30°	7551.4	7458.6	7184.7	6744.7	6468.6	6453.5	6740.4	7154.5	7204.1	7335.7	7204.1
32.5°	8996.5	8908.1	8610.4	8069.0	7590.2	7352.9	7551.4	8010.8	8036.7	8120.8	7926.7
35°	10417.9	10327.4	10029.7	9475.3	8886.5	8347.3	8308.4	8826.1	8834.8	8923.1	8634.2
37.5°	11848.0	11772.4	11455.4	10911.8	10331.7	9587.5	9227.4	9598.3	9609.1	9695.4	9395.6
40°	12868.2	12900.5	12682.7	12262.1	11763.8	10950.7	10258.3	10420.0	10355.4	10499.9	10320.8
42.5°	13743.9	13808.6	13618.8	13407.4	13118.4	12402.3	11535.2	11507.2	11403.6	11481.3	11295.8
45°	14501.0	14554.9	14384.5	14334.9	14328.5	13825.8	12930.8	12762.5	12618.0	12602.9	12380.8
47.5°	14779.3	14882.8	14956.1	15122.1	15445.7	15234.4	14373.7	14112.7	13951.0	13832.4	13480.8
50°	14884.9	14994.9	15245.1	15728.2	16494.0	16584.6	15810.2	15516.9	15318.4	15102.8	14585.1
52.5°	14742.6	14938.9	15275.3	16088.5	17199.3	17667.3	17188.5	16931.9	16705.3	16353.8	15585.9
55°	13903.5	14099.8	14787.9	16084.2	17550.9	18426.5	18491.3	18376.9	18122.4	17568.1	16394.8
57.5°	12134.9	12426.0	13515.2	15536.3	17544.4	19080.2	19768.1	19850.1	19565.4	18771.6	17031.1
60°	9684.6	10079.3	11407.9	14321.9	17003.0	19433.9	20887.7	21297.4	20995.5	19958.0	17546.6
62.5°	6757.6	7214.9	8472.3	12419.5	15764.9	19179.4	21705.1	22462.2	22233.6	21019.2	17745.0
65°	4121.8	4268.5	5282.3	9773.0	13659.8	18113.8	21957.4	23092.0	23016.5	21668.4	17451.6
67.5°	2745.8	2868.7	3159.9	6701.6	10603.4	15985.0	21353.5	22982.0	23003.6	21562.7	16377.4
70°	1654.4	1760.0	1949.9	3897.6	6871.9	12652.5	19483.5	21580.0	21705.1	20150.0	14341.4
72.5°	681.6	752.8	925.4	1766.5	3558.9	8030.3	15514.7	18527.9	18819.1	16942.6	11006.8
75°	386.1	422.7	543.6	886.5	1544.4	3742.3	9397.7	13152.9	13582.2	11677.6	6621.7
77.5°	256.7	273.9	351.6	573.7	869.2	1276.9	4016.2	6852.5	7672.1	6378.1	2866.5
80°	172.5	187.7	241.6	384.0	565.1	547.9	1279.1	2538.7	3123.2	2191.4	698.8
82.5°	116.4	118.6	172.5	252.4	358.0	265.3	377.5	789.5	992.2	634.2	265.3
85°	66.8	64.7	127.3	146.7	159.6	110.0	114.3	237.3	310.6	267.4	151.0
87.5°	8.6	12.9	49.6	38.8	21.5	23.7	23.7	41.0	60.4	64.7	32.4
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°	3742.3	3742.3	3742.3	3742.3	3742.3	3742.3	3742.3	3742.3	3742.3	3742.3	3742.3
2.5°	3746.6	3744.4	3738.0	3731.5	3716.3	3707.7	3712.0	3707.7	3705.6	3707.7	3716.3
5°	3774.6	3768.1	3750.9	3729.4	3699.1	3662.4	3638.7	3604.2	3571.8	3552.4	3556.7
7.5°	3850.1	3843.6	3819.9	3759.5	3662.4	3509.3	3369.1	3246.2	3153.4	3099.5	3101.6
10°	3970.8	3960.1	3923.4	3789.7	3535.2	3200.9	2922.6	2691.9	2540.9	2469.6	2463.2
12.5°	4113.2	4100.3	4035.6	3761.6	3293.6	2771.6	2387.7	2131.1	1990.9	1928.3	1921.8
15°	4281.5	4264.2	4137.0	3628.0	2942.1	2297.1	1945.6	1753.6	1663.0	1606.9	1609.0
17.5°	4490.7	4460.5	4212.4	3427.4	2560.2	1934.8	1673.7	1529.3	1449.5	1395.5	1391.2
20°	4762.5	4712.8	4272.8	3188.0	2208.7	1706.1	1490.5	1369.6	1309.2	1261.8	1253.2
22.5°	5142.1	5070.9	4346.2	2929.1	1960.6	1548.7	1354.5	1266.1	1216.5	1162.6	1153.9
25°	5612.3	5528.2	4436.8	2689.7	1790.3	1412.8	1255.3	1182.0	1123.7	1061.2	1054.7
27.5°	6270.1	6119.1	4544.6	2493.4	1643.6	1296.3	1164.7	1082.8	1015.9	964.1	953.4
30°	7003.5	6755.5	4639.6	2374.7	1509.8	1188.5	1046.1	964.1	901.6	864.9	858.4
32.5°	7698.1	7361.6	4702.1	2323.0	1389.1	1065.5	916.7	828.3	780.8	770.0	776.5
35°	8353.8	7909.4	4695.6	2273.3	1281.2	942.6	789.5	698.8	662.2	668.6	668.6
37.5°	9108.7	8494.0	4650.3	2195.8	1192.8	830.5	679.5	599.6	567.2	569.4	578.1
40°	9986.6	9169.0	4622.2	2049.1	1095.7	726.9	588.9	524.1	500.4	491.8	489.6
42.5°	10922.6	9822.6	4626.6	1883.0	974.9	634.2	526.3	472.3	450.8	444.3	442.2
45°	11863.0	10446.0	4633.1	1710.4	847.7	562.9	481.0	435.7	422.7	414.1	414.1
47.5°	12747.4	10976.5	4512.3	1524.9	722.5	509.0	444.3	414.1	403.3	392.6	392.6
50°	13571.3	11330.3	4221.1	1309.2	623.3	465.9	416.3	394.7	384.0	373.1	373.1
52.5°	14211.9	11386.4	3740.1	1087.1	554.3	433.6	399.0	379.7	366.6	355.9	353.7
55°	14496.7	11034.8	3056.3	880.1	500.4	405.5	381.8	362.3	347.3	336.5	334.4
57.5°	14423.3	10295.0	2383.4	707.5	448.6	377.5	360.2	347.3	330.0	312.7	310.6
60°	14063.1	9304.9	1796.7	588.9	401.2	347.3	336.5	325.7	302.0	276.1	271.7
62.5°	13439.8	8060.4	1281.2	487.5	349.4	312.7	308.4	299.8	265.3	217.8	213.5
65°	12486.4	6548.4	862.7	405.5	299.8	273.9	276.1	261.0	215.7	161.7	157.4
67.5°	11093.1	4788.4	552.2	332.2	250.2	228.7	230.8	222.1	183.4	138.1	131.6
70°	9317.9	3170.6	360.2	252.4	200.6	176.9	189.8	192.0	155.3	112.1	107.8
72.5°	6831.0	1872.2	252.4	187.7	146.7	122.9	155.3	159.6	125.2	84.2	79.8
75°	3893.3	888.7	189.8	135.9	90.6	86.3	120.7	120.7	86.3	56.1	51.8
77.5°	1635.0	370.9	133.8	88.5	51.8	49.6	82.0	75.5	43.2	25.9	25.9
80°	472.3	166.0	71.1	43.2	21.5	19.4	32.4	23.7	10.8	4.3	4.3
82.5°	185.5	73.3	28.1	17.2	8.6	8.6	4.3	0.0	0.0	0.0	0.0
85°	110.0	30.2	12.9	6.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	28.1	6.5	4.3	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)