

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: STREETWORKS

Report Number: P968793

Luminaire Tested: **NVN-SB5C-735-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968793
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB5C-735-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29359.1 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

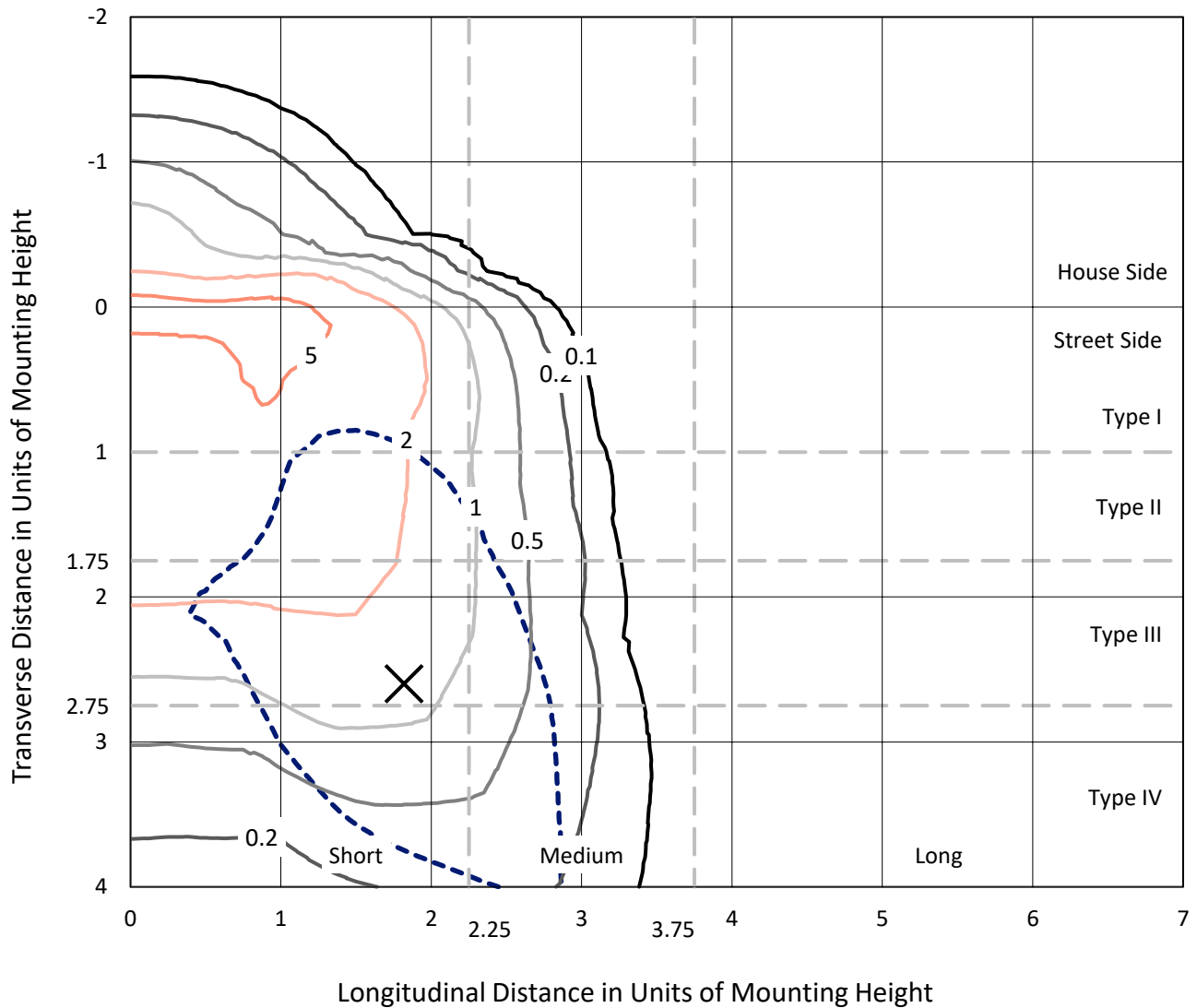
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

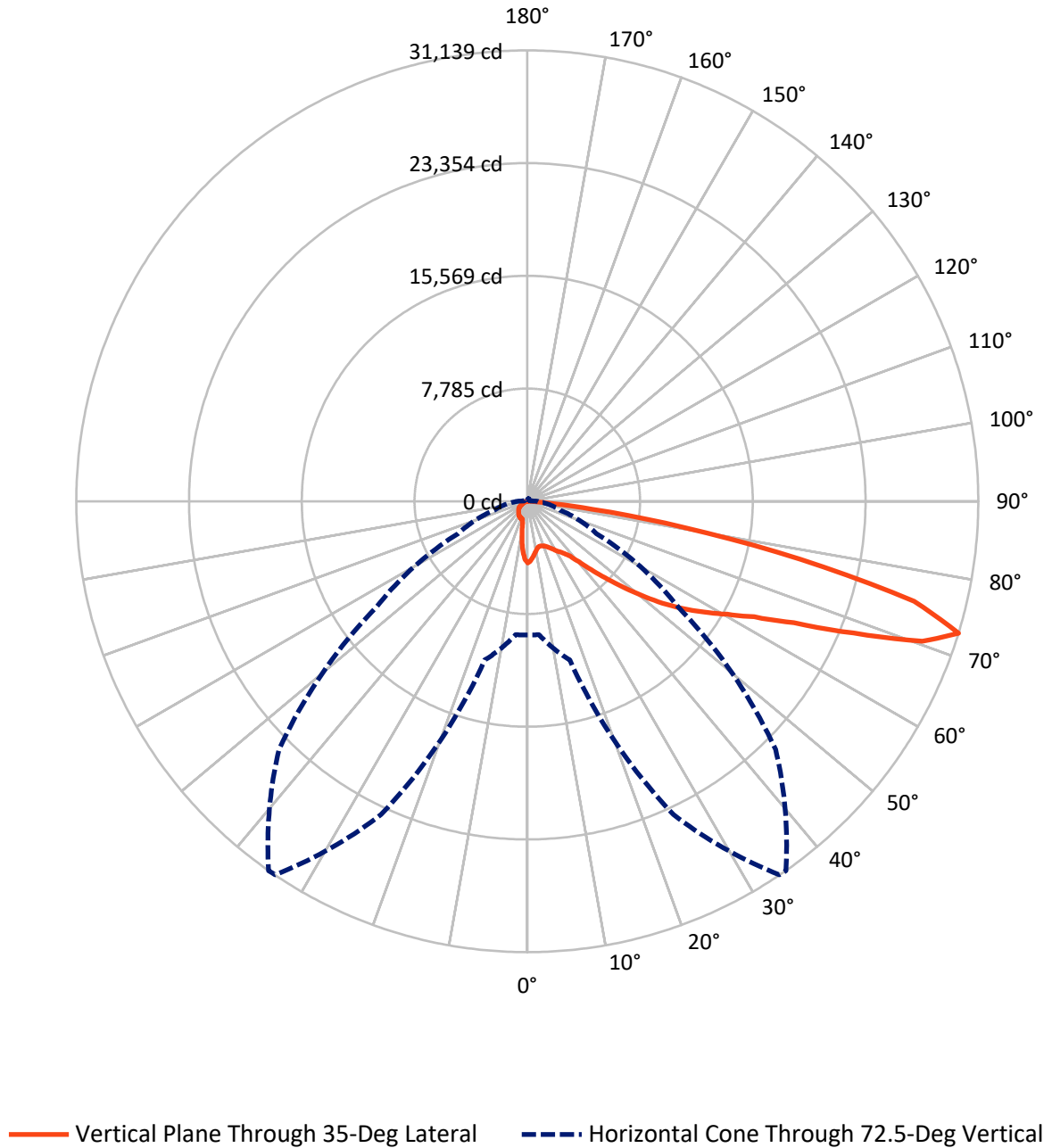
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	3304.2	0.0	3304.2
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	26054.8	0.0	26054.8
	% Fixture	88.7	0.0	88.7
Total	Lumens	29359.1	0.0	29359.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.7	1.2
10°-20°	818.0	2.8
20°-30°	1328.8	4.5
30°-40°	2217.1	7.6
40°-50°	4194.8	14.3
50°-60°	6665.4	22.7
60°-70°	8245.6	28.1
70°-80°	5125.5	17.5
80°-90°	414.2	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°	29359.1	100.0
0°-180°	29359.1	100.0

Coefficient of Utilization



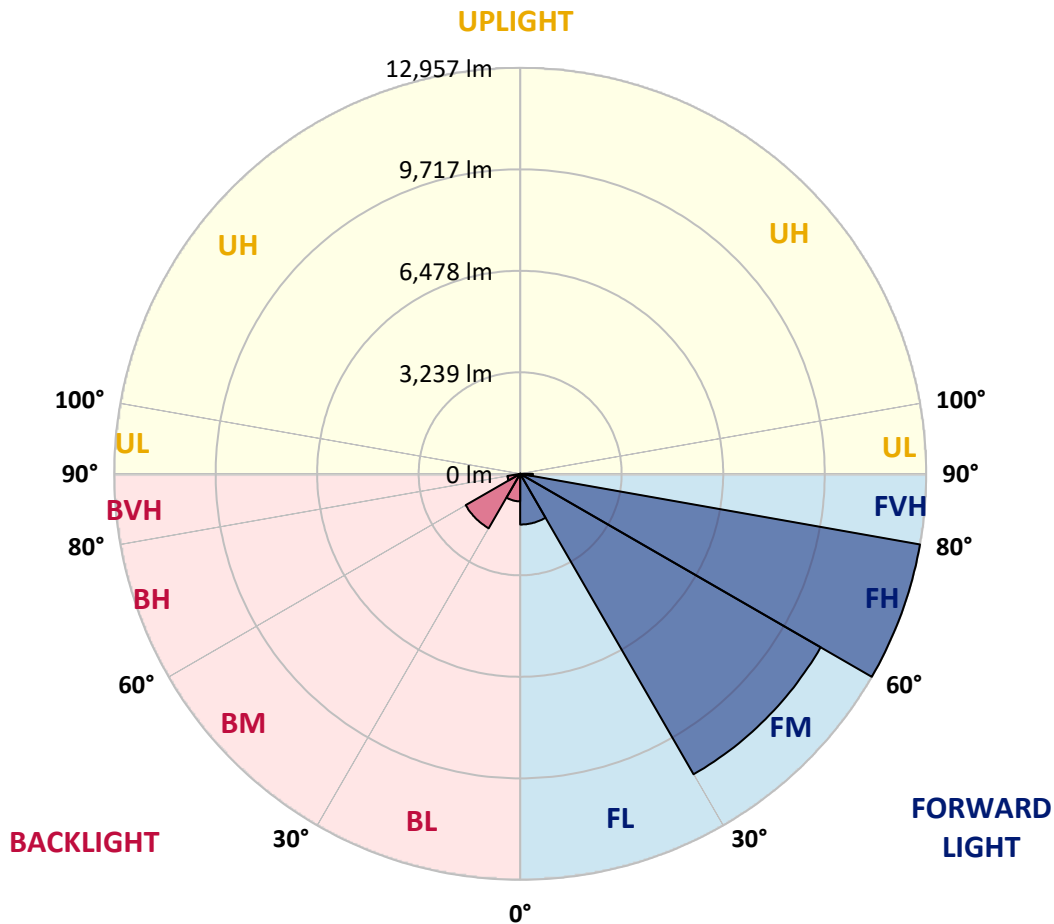
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1618.4	5.5			
FM (30°-60°)	11071.3	37.7			
FH (60°-80°)	12956.5	44.1			G5
FVH (80°-90°)	408.6	1.4			G3/500
BL (0°-30°)	878.0	3.0	B2/1000		
BM (30°-60°)	2006.0	6.8	B2/2500		
BH (60°-80°)	414.6	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°	4255.1	4255.1	4255.1	4255.1	4255.1	4255.1	4255.1	4255.1	4255.1	4255.1	4255.1
2.5°	4065.8	4100.2	4106.7	4117.4	4117.4	4130.3	4151.9	4182.0	4231.4	4257.2	4274.5
5°	3747.4	3773.2	3805.5	3831.3	3880.8	3887.2	3971.2	4052.8	4166.9	4252.9	4313.2
7.5°	3426.9	3457.0	3500.1	3562.4	3627.0	3646.3	3773.2	3910.9	4091.6	4252.9	4354.1
10°	3201.0	3203.1	3241.9	3304.3	3407.5	3431.2	3586.1	3781.8	4007.7	4227.1	4392.8
12.5°	3074.1	3089.1	3106.4	3153.7	3252.6	3267.7	3433.3	3663.6	3923.8	4212.1	4437.9
15°	3074.1	3084.8	3095.6	3119.3	3198.8	3211.7	3358.1	3588.2	3880.8	4218.6	4511.1
17.5°	3106.4	3123.6	3115.0	3143.0	3226.8	3235.4	3364.5	3566.7	3878.6	4259.4	4623.0
20°	3183.9	3196.7	3179.5	3196.7	3280.6	3297.8	3431.2	3607.6	3915.2	4330.4	4762.8
22.5°	3306.4	3312.9	3272.0	3284.9	3370.9	3392.4	3547.3	3723.7	4003.4	4444.4	4949.9
25°	3461.3	3474.2	3411.8	3426.9	3508.7	3534.4	3713.0	3898.0	4143.3	4601.4	5188.8
27.5°	3639.9	3646.3	3592.5	3590.4	3695.8	3732.3	3913.0	4113.1	4330.4	4799.4	5489.9
30°	3844.3	3863.6	3812.0	3803.4	3936.7	3966.9	4145.4	4377.8	4605.7	5096.2	5918.0
32.5°	4005.6	4020.7	3990.5	4012.1	4147.6	4171.2	4427.2	4752.0	5038.2	5517.9	6501.0
35°	4237.9	4246.5	4177.7	4216.4	4371.3	4431.5	4812.3	5276.9	5582.5	6047.1	7262.5
37.5°	5079.1	5079.1	4786.4	4595.0	4743.4	4797.2	5339.3	5937.4	6253.6	6757.0	8221.9
40°	6242.9	6223.5	5795.3	5403.9	5384.5	5489.9	6090.1	6769.9	7120.6	7608.9	9301.9
42.5°	7484.1	7454.0	6871.0	6483.7	6419.3	6455.9	6957.1	7796.0	8153.2	8647.9	10463.5
45°	8585.5	8576.9	8043.4	7522.8	7406.6	7522.8	8039.1	8996.4	9252.4	9773.0	11623.1
47.5°	9508.4	9508.4	9119.0	8779.1	8718.9	8787.7	9504.1	10328.0	10304.3	10971.2	12752.4
50°	10571.1	10562.5	10192.5	10046.2	10108.6	10205.4	11190.6	11730.6	11392.9	12148.0	13761.3
52.5°	11315.4	11367.0	11240.2	11216.5	11534.8	11702.6	12903.0	13103.1	12367.3	13264.4	14516.5
55°	11904.9	11965.1	12111.4	12277.0	12890.1	13109.5	14561.7	14404.5	13182.7	14232.4	14951.0
57.5°	12739.5	12653.5	12879.3	13206.3	14198.1	14462.6	16168.6	15632.9	13838.8	15017.7	14998.3
60°	13752.7	13765.6	13804.4	14217.5	15503.8	15843.7	17751.9	16794.6	14260.4	15499.5	14473.4
62.5°	14970.3	14989.7	15069.3	15703.9	17257.1	17577.6	19438.4	17745.4	14454.0	15364.0	13118.2
65°	14886.5	14968.2	15856.6	18027.2	19922.4	20238.7	21406.8	18412.3	14161.5	14124.9	10680.8
67.5°	13561.3	13694.7	15181.2	20802.3	23940.9	24293.7	23786.0	18543.5	12898.7	10984.1	6967.8
70°	11823.1	11870.4	13658.1	23297.7	28594.0	28951.1	25915.8	17100.1	9788.0	6126.6	3121.4
72.5°	9233.0	9243.8	11341.2	23876.4	31119.5	31138.9	24244.2	12694.3	5264.0	2353.4	1084.2
75°	6595.7	6531.1	7596.0	19363.2	27378.6	27598.0	18175.7	5954.5	2011.4	1112.2	540.0
77.5°	3536.6	3607.6	4298.1	11483.2	18913.5	19287.8	9917.1	1716.7	1024.0	757.3	357.1
80°	1092.9	1153.0	1761.9	5257.5	10713.1	10939.0	3676.5	763.7	714.2	540.0	234.5
82.5°	344.2	357.1	821.7	2209.3	4446.6	4549.9	1064.9	432.3	488.3	357.1	137.7
85°	98.9	101.1	365.7	823.9	1099.3	1120.7	299.0	167.8	279.6	221.6	71.0
87.5°	10.8	34.4	137.7	137.7	96.8	94.6	32.3	36.6	79.6	28.0	12.9
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°	4255.1	4255.1	4255.1	4255.1	4255.1	4255.1	4255.1	4255.1	4255.1	4255.1	4255.1
2.5°	4263.7	4265.8	4237.9	4190.6	4139.0	4095.9	4042.2	3999.1	3969.0	3960.4	3975.5
5°	4293.8	4278.8	4199.2	4055.0	3882.9	3734.5	3568.8	3437.6	3351.6	3315.1	3328.0
7.5°	4339.0	4296.0	4121.7	3837.8	3508.7	3216.0	2919.2	2689.0	2542.7	2469.6	2480.4
10°	4377.8	4291.7	3992.7	3523.7	3020.3	2577.2	2177.0	1899.5	1744.7	1671.5	1673.6
12.5°	4414.3	4289.5	3824.9	3151.6	2469.6	1927.5	1555.3	1417.7	1374.6	1359.6	1355.3
15°	4483.1	4296.0	3614.0	2725.6	1921.1	1456.4	1320.8	1318.7	1327.3	1323.0	1320.8
17.5°	4577.8	4302.4	3375.2	2273.9	1482.1	1284.3	1277.9	1297.1	1310.1	1303.6	1301.4
20°	4700.4	4328.3	3121.4	1826.3	1273.6	1241.3	1256.3	1273.6	1284.3	1273.6	1271.4
22.5°	4872.5	4373.5	2843.9	1467.1	1206.8	1215.4	1228.4	1247.7	1258.5	1243.4	1241.3
25°	5083.4	4444.4	2570.7	1275.7	1174.5	1185.3	1204.7	1226.2	1239.1	1224.1	1221.9
27.5°	5356.5	4558.5	2319.1	1232.7	1142.3	1148.7	1176.7	1209.0	1226.2	1206.8	1206.8
30°	5752.4	4745.5	2101.8	1252.0	1122.9	1107.9	1146.6	1191.8	1211.1	1193.9	1191.8
32.5°	6277.3	5010.2	1968.4	1282.2	1114.4	1060.6	1097.2	1155.2	1187.5	1176.7	1176.7
35°	6965.7	5412.5	1916.7	1316.5	1107.9	1011.1	1036.9	1099.3	1155.2	1165.9	1165.9
37.5°	7800.4	5971.8	1931.8	1331.6	1088.6	970.2	983.1	1036.9	1110.1	1144.4	1153.0
40°	8749.0	6623.7	2017.8	1316.5	1067.0	935.8	938.0	978.8	1043.3	1095.0	1112.2
42.5°	9727.9	7385.1	2177.0	1260.6	1047.7	905.7	899.2	927.2	970.2	1006.8	1021.8
45°	10659.3	8168.2	2334.0	1183.2	1024.0	875.6	860.5	871.2	879.9	894.9	903.5
47.5°	11472.4	8718.9	2288.9	1112.2	991.7	841.1	815.3	811.0	785.2	783.0	780.8
50°	12033.9	8839.4	2032.9	1041.2	944.4	802.4	761.6	735.7	690.5	669.0	671.2
52.5°	12212.5	8363.9	1660.7	970.2	866.9	750.8	692.7	651.8	595.9	576.6	574.4
55°	11975.9	7432.5	1327.3	884.2	759.4	681.9	617.4	563.6	518.4	494.8	494.8
57.5°	11397.2	6247.2	1049.8	783.0	645.3	604.4	540.0	486.2	447.4	423.8	419.5
60°	10437.7	4960.7	830.4	662.6	550.7	520.6	453.9	419.5	385.1	357.1	350.7
62.5°	8981.4	3540.9	651.8	524.9	460.3	426.0	387.2	361.4	320.5	281.8	275.3
65°	7008.6	2166.2	503.4	385.1	370.0	352.8	329.1	305.4	256.0	217.3	210.8
67.5°	4420.7	1026.1	359.3	290.4	292.5	283.9	273.2	253.9	217.3	182.9	178.6
70°	1946.9	496.9	236.7	221.6	217.3	217.3	225.9	219.5	185.0	152.7	146.3
72.5°	662.6	266.7	176.4	167.8	157.0	154.9	189.3	182.9	148.4	118.3	111.8
75°	346.3	178.6	129.0	120.4	94.6	114.0	150.6	142.0	105.4	77.5	71.0
77.5°	225.9	126.9	88.1	77.5	53.8	75.3	111.8	98.9	62.4	38.7	34.4
80°	142.0	83.9	51.7	36.6	25.8	40.9	60.3	43.0	23.7	8.6	6.5
82.5°	75.3	43.0	19.4	12.9	10.8	12.9	15.1	10.8	4.3	0.0	0.0
85°	30.1	15.1	6.5	4.3	2.2	0.0	4.3	2.2	0.0	0.0	0.0
87.5°	10.8	2.2	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)