

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: P971025

Luminaire Tested: **NAV-SB6C-827-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971025
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: LUMARK
Catalog Number: NAV-SB6C-827-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 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: 30647.5 lumens
Efficiency: N/A
Efficacy: 101.9 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): 300.9
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



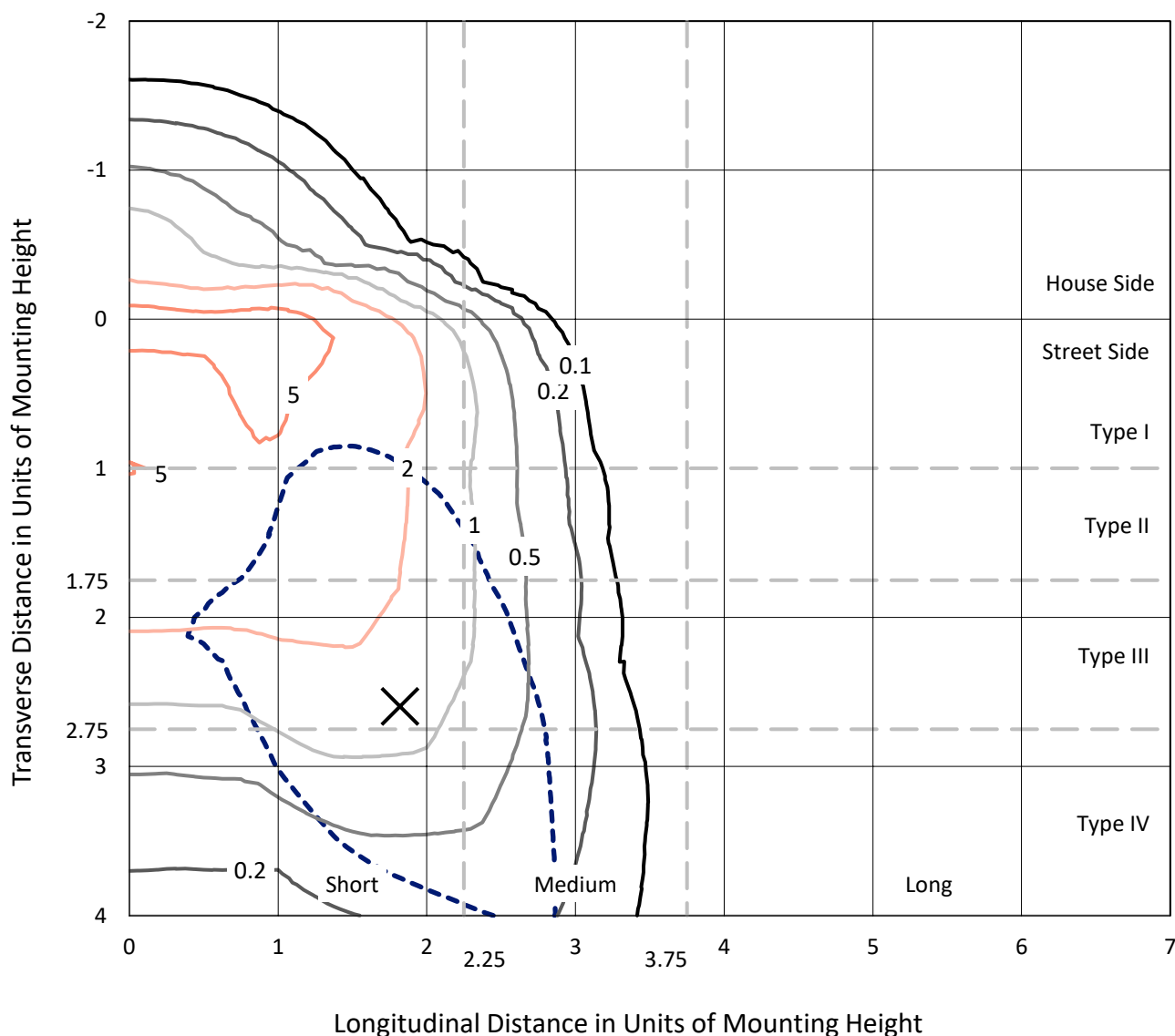
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

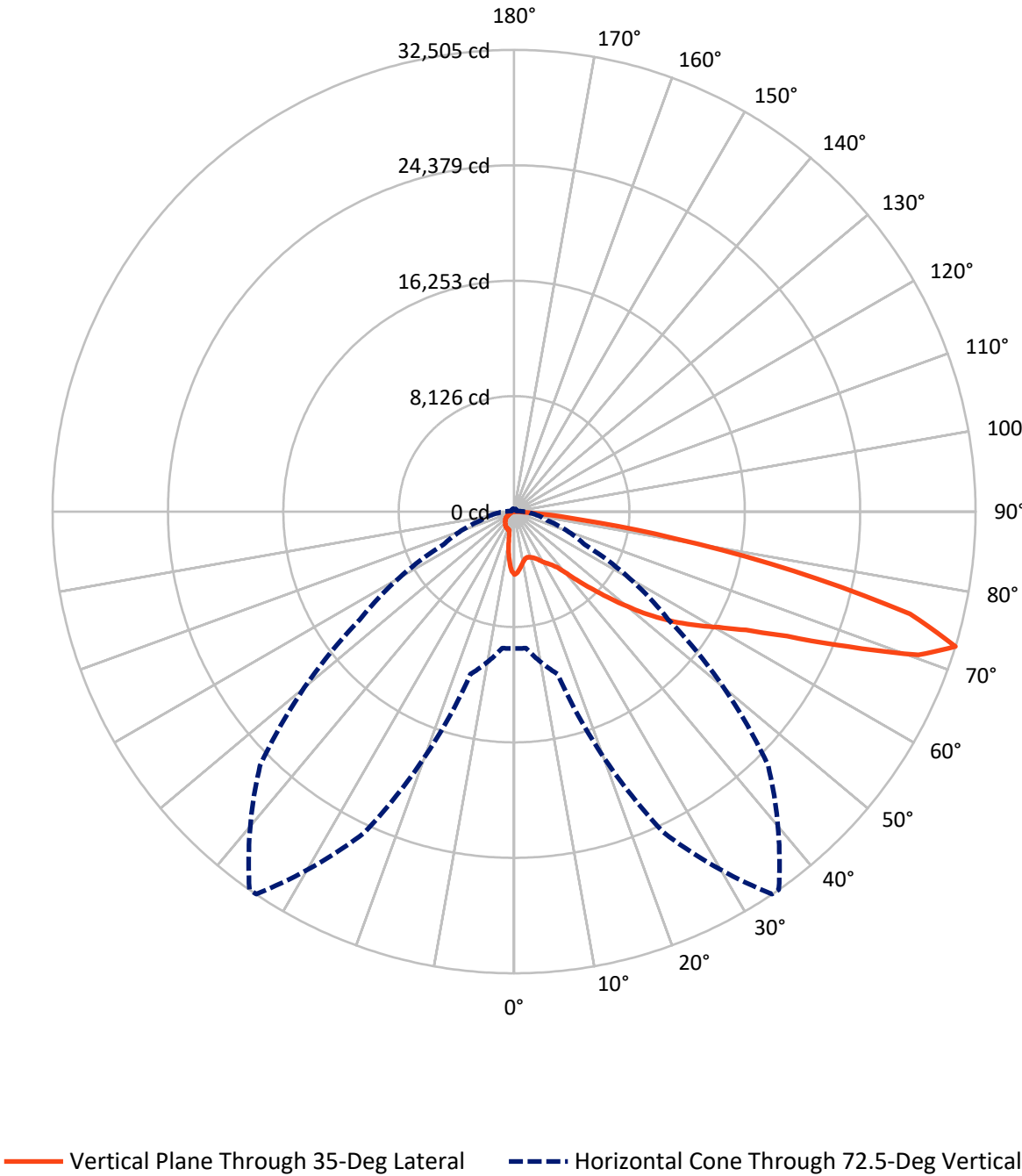


Based on 25 foot mounting height. Maximum calculated value = 7.1 fc

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	3449.2	0.0	3449.2
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	27198.3	0.0	27198.3
	% Fixture	88.7	0.0	88.7
Total	Lumens	30647.5	0.0	30647.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.0	1.2
10°-20°	853.9	2.8
20°-30°	1387.1	4.5
30°-40°	2314.4	7.6
40°-50°	4378.8	14.3
50°-60°	6958.0	22.7
60°-70°	8607.5	28.1
70°-80°	5350.5	17.5
80°-90°	432.4	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°	30647.5	100.0
0°-180°	30647.5	100.0

Coefficient of Utilization



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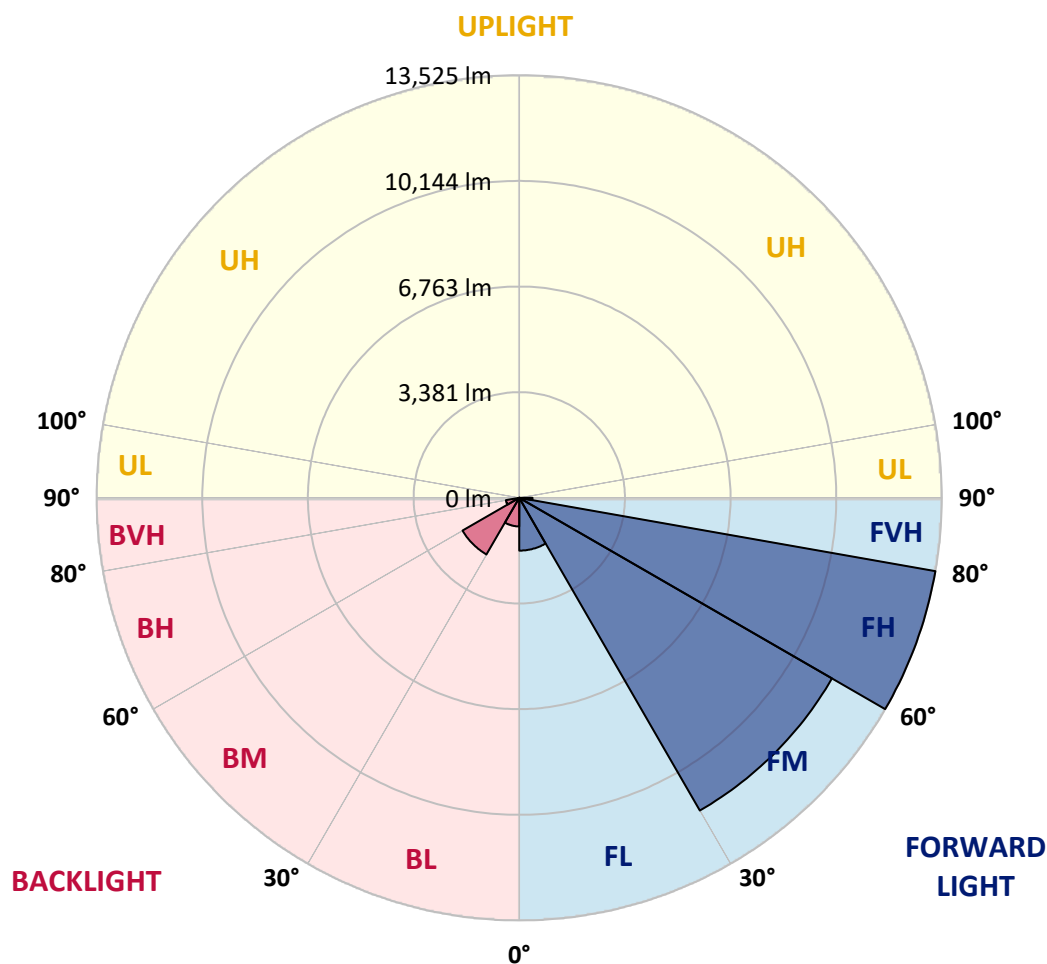
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1689.5	5.5			
FM	(30°-60°)	11557.2	37.7			
FH	(60°-80°)	13525.1	44.1			G5
FVH	(80°-90°)	426.5	1.4			G3/500
BL	(0°-30°)	916.5	3.0	B2/1000		
BM	(30°-60°)	2094.0	6.8	B2/2500		
BH	(60°-80°)	432.8	1.4	B1/500		G1/500
BVH	(80°-90°)	5.9	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°	4441.8	4441.8	4441.8	4441.8	4441.8	4441.8	4441.8	4441.8	4441.8	4441.8	4441.8
2.5°	4244.2	4280.2	4286.9	4298.1	4298.1	4311.6	4334.1	4365.5	4417.1	4444.1	4462.0
5°	3911.9	3938.9	3972.5	3999.4	4051.1	4057.9	4145.4	4230.8	4349.8	4439.6	4502.5
7.5°	3577.2	3608.7	3653.6	3718.8	3786.1	3806.3	3938.9	4082.6	4271.2	4439.6	4545.2
10°	3341.5	3343.8	3384.1	3449.3	3557.1	3581.8	3743.5	3947.8	4183.6	4412.6	4585.5
12.5°	3209.0	3224.8	3242.7	3292.1	3395.4	3411.1	3584.0	3824.3	4096.0	4396.9	4632.7
15°	3209.0	3220.2	3231.4	3256.1	3339.2	3352.7	3505.4	3745.7	4051.1	4403.7	4709.1
17.5°	3242.7	3260.6	3251.7	3280.8	3368.5	3377.4	3512.2	3723.2	4048.9	4446.3	4825.8
20°	3323.6	3337.0	3319.1	3337.0	3424.6	3442.6	3581.8	3766.0	4087.1	4520.5	4971.9
22.5°	3451.5	3458.2	3415.6	3429.0	3518.9	3541.4	3703.0	3887.2	4179.1	4639.5	5167.2
25°	3613.2	3626.7	3561.6	3577.2	3662.6	3689.6	3875.9	4069.0	4325.1	4803.4	5416.4
27.5°	3799.6	3806.3	3750.2	3747.9	3858.0	3896.1	4084.8	4293.6	4520.5	5010.0	5730.9
30°	4013.0	4033.2	3979.3	3970.2	4109.5	4140.9	4327.3	4569.9	4807.9	5319.9	6177.7
32.5°	4181.4	4197.1	4165.6	4188.0	4329.6	4354.3	4621.5	4960.6	5259.3	5760.0	6786.3
35°	4423.9	4432.8	4361.0	4401.5	4563.1	4626.0	5023.4	5508.6	5827.4	6312.5	7581.2
37.5°	5301.9	5301.9	4996.6	4796.7	4951.6	5007.7	5573.6	6198.0	6528.0	7053.5	8582.8
40°	6516.8	6496.6	6049.8	5641.0	5620.8	5730.9	6357.4	7067.0	7433.0	7942.8	9710.1
42.5°	7812.6	7781.1	7172.5	6768.3	6700.9	6739.2	7262.3	8138.2	8510.9	9027.4	10922.7
45°	8962.3	8953.3	8396.4	7852.9	7731.7	7852.9	8391.9	9391.3	9658.5	10201.9	12133.1
47.5°	9925.7	9925.7	9519.2	9164.4	9101.5	9173.3	9921.2	10781.3	10756.6	11452.7	13312.1
50°	11035.0	11026.0	10639.8	10487.1	10552.2	10653.2	11681.7	12245.4	11892.9	12681.1	14365.3
52.5°	11812.0	11865.9	11733.4	11708.7	12041.1	12216.3	13469.3	13678.1	12910.1	13846.5	15153.5
55°	12427.3	12490.1	12642.9	12815.8	13455.8	13684.9	15200.6	15036.7	13761.2	14857.1	15607.1
57.5°	13298.6	13208.8	13444.6	13785.9	14821.1	15097.3	16878.2	16318.9	14446.1	15676.8	15656.5
60°	14356.3	14369.8	14410.2	14841.4	16184.2	16539.1	18530.9	17531.6	14886.3	16179.7	15108.6
62.5°	15627.4	15647.5	15730.6	16393.0	18014.4	18349.0	20291.5	18524.2	15088.4	16038.3	13693.8
65°	15539.7	15625.1	16552.5	18818.4	20796.7	21126.9	22346.2	19220.3	14783.0	14744.8	11149.5
67.5°	14156.5	14295.7	15847.4	21715.2	24991.6	25359.8	24829.9	19357.3	13464.8	11466.2	7273.6
70°	12341.9	12391.3	14257.4	24320.2	29848.9	30221.6	27053.0	17850.5	10217.6	6395.6	3258.4
72.5°	9638.3	9649.5	11839.0	24924.2	32485.2	32505.4	25308.2	13251.4	5495.0	2456.7	1131.8
75°	6885.1	6817.7	7929.3	20212.9	28580.1	28809.2	18973.3	6215.9	2099.7	1161.0	563.6
77.5°	3691.8	3766.0	4486.7	11987.2	19743.6	20134.3	10352.3	1792.0	1068.9	790.5	372.8
80°	1140.8	1203.7	1839.2	5488.4	11183.3	11419.0	3837.8	797.2	745.6	563.6	244.8
82.5°	359.3	372.8	857.8	2306.2	4641.7	4749.5	1111.6	451.4	509.7	372.8	143.7
85°	103.3	105.6	381.7	860.1	1147.5	1169.9	312.1	175.2	291.9	231.3	74.1
87.5°	11.3	36.0	143.7	143.7	101.1	98.8	33.7	38.1	83.1	29.2	13.4
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°	4441.8	4441.8	4441.8	4441.8	4441.8	4441.8	4441.8	4441.8	4441.8	4441.8	4441.8
2.5°	4450.9	4453.1	4423.9	4374.5	4320.6	4275.7	4219.5	4174.6	4143.2	4134.2	4149.9
5°	4482.2	4466.5	4383.5	4233.0	4053.4	3898.4	3725.5	3588.5	3498.7	3460.5	3474.0
7.5°	4529.5	4484.5	4302.6	4006.2	3662.6	3357.2	3047.3	2807.1	2654.3	2578.0	2589.3
10°	4569.9	4480.1	4167.9	3678.3	3152.9	2690.2	2272.5	1982.9	1821.2	1744.9	1747.1
12.5°	4608.0	4477.8	3992.7	3289.8	2578.0	2012.1	1623.6	1479.9	1435.0	1419.2	1414.7
15°	4679.8	4484.5	3772.6	2845.2	2005.3	1520.3	1378.8	1376.6	1385.6	1381.1	1378.8
17.5°	4778.7	4491.2	3523.4	2373.6	1547.2	1340.6	1333.9	1354.1	1367.6	1360.9	1358.6
20°	4906.7	4518.2	3258.4	1906.5	1329.4	1295.7	1311.5	1329.4	1340.6	1329.4	1327.2
22.5°	5086.4	4565.3	2968.7	1531.6	1259.8	1268.7	1282.3	1302.5	1313.7	1298.0	1295.7
25°	5306.4	4639.5	2683.6	1331.7	1226.1	1237.4	1257.6	1280.0	1293.4	1277.8	1275.5
27.5°	5591.6	4758.5	2420.7	1286.8	1192.4	1199.1	1228.4	1262.1	1280.0	1259.8	1259.8
30°	6004.8	4953.8	2194.0	1307.0	1172.2	1156.5	1196.9	1244.0	1264.3	1246.3	1244.0
32.5°	6552.7	5230.1	2054.7	1338.3	1163.3	1107.1	1145.2	1205.9	1239.6	1228.4	1228.4
35°	7271.4	5650.0	2000.9	1374.3	1156.5	1055.4	1082.4	1147.5	1205.9	1217.1	1217.1
37.5°	8142.6	6233.8	2016.6	1390.0	1136.3	1012.8	1026.2	1082.4	1158.8	1194.6	1203.7
40°	9133.0	6914.2	2106.4	1374.3	1113.9	976.8	979.1	1021.7	1089.2	1143.0	1161.0
42.5°	10154.7	7709.2	2272.5	1315.9	1093.6	945.5	938.7	967.9	1012.8	1050.9	1066.7
45°	11127.1	8526.7	2436.5	1235.1	1068.9	914.0	898.2	909.5	918.5	934.2	943.2
47.5°	11975.9	9101.5	2389.4	1161.0	1035.2	878.0	851.1	846.6	819.7	817.4	815.2
50°	12562.0	9227.3	2122.2	1086.9	985.8	837.6	795.0	768.0	720.9	698.4	700.6
52.5°	12748.4	8730.9	1733.6	1012.8	905.0	783.7	723.1	680.4	622.1	601.8	599.6
55°	12501.4	7758.6	1385.6	922.9	792.7	711.9	644.5	588.3	541.2	516.5	516.5
57.5°	11897.4	6521.3	1095.8	817.4	673.7	631.0	563.6	507.5	467.1	442.4	437.9
60°	10895.7	5178.4	866.8	691.7	574.9	543.5	473.9	437.9	402.0	372.8	366.0
62.5°	9375.5	3696.3	680.4	548.0	480.5	444.6	404.3	377.3	334.6	294.2	287.4
65°	7316.2	2261.4	525.5	402.0	386.2	368.3	343.6	318.9	267.2	226.8	220.1
67.5°	4614.8	1071.1	375.0	303.2	305.4	296.4	285.2	265.0	226.8	190.9	186.3
70°	2032.3	518.8	247.0	231.3	226.8	226.8	235.7	229.1	193.1	159.5	152.7
72.5°	691.7	278.5	184.2	175.2	163.9	161.6	197.6	190.9	155.0	123.5	116.7
75°	361.5	186.3	134.8	125.8	98.8	119.0	157.2	148.2	110.1	80.9	74.1
77.5°	235.7	132.5	92.0	80.9	56.2	78.6	116.7	103.3	65.1	40.4	36.0
80°	148.2	87.5	53.9	38.1	27.0	42.6	62.8	44.9	24.7	9.0	6.8
82.5°	78.6	44.9	20.2	13.4	11.3	13.4	15.7	11.3	4.5	0.0	0.0
85°	31.5	15.7	6.8	4.5	2.3	0.0	4.5	2.3	0.0	0.0	0.0
87.5°	11.3	2.3	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)