

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: P885290

Luminaire Tested: **NAV-SB6C-730-U-T4FT-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885290
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-730-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 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: 33879 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

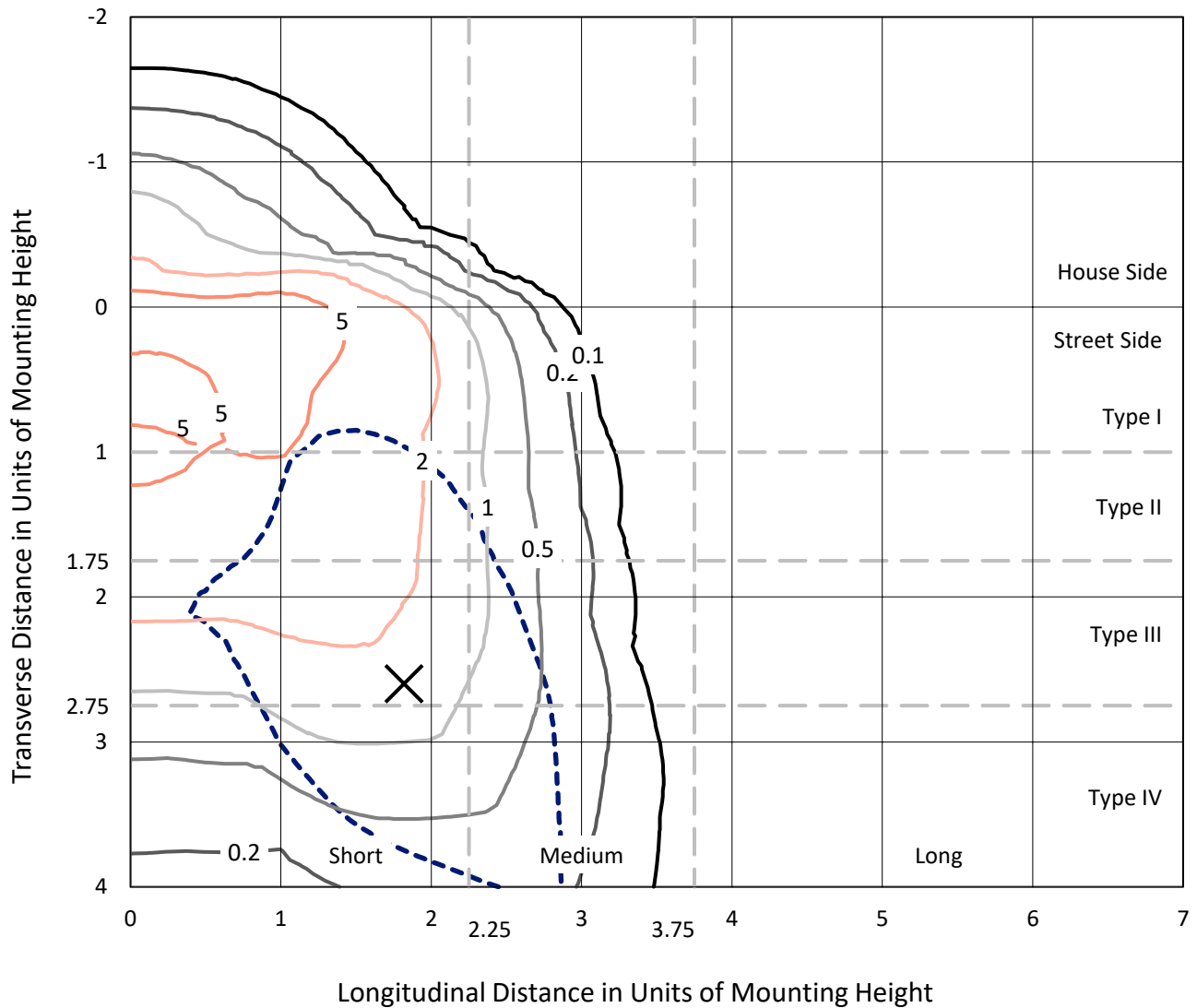
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

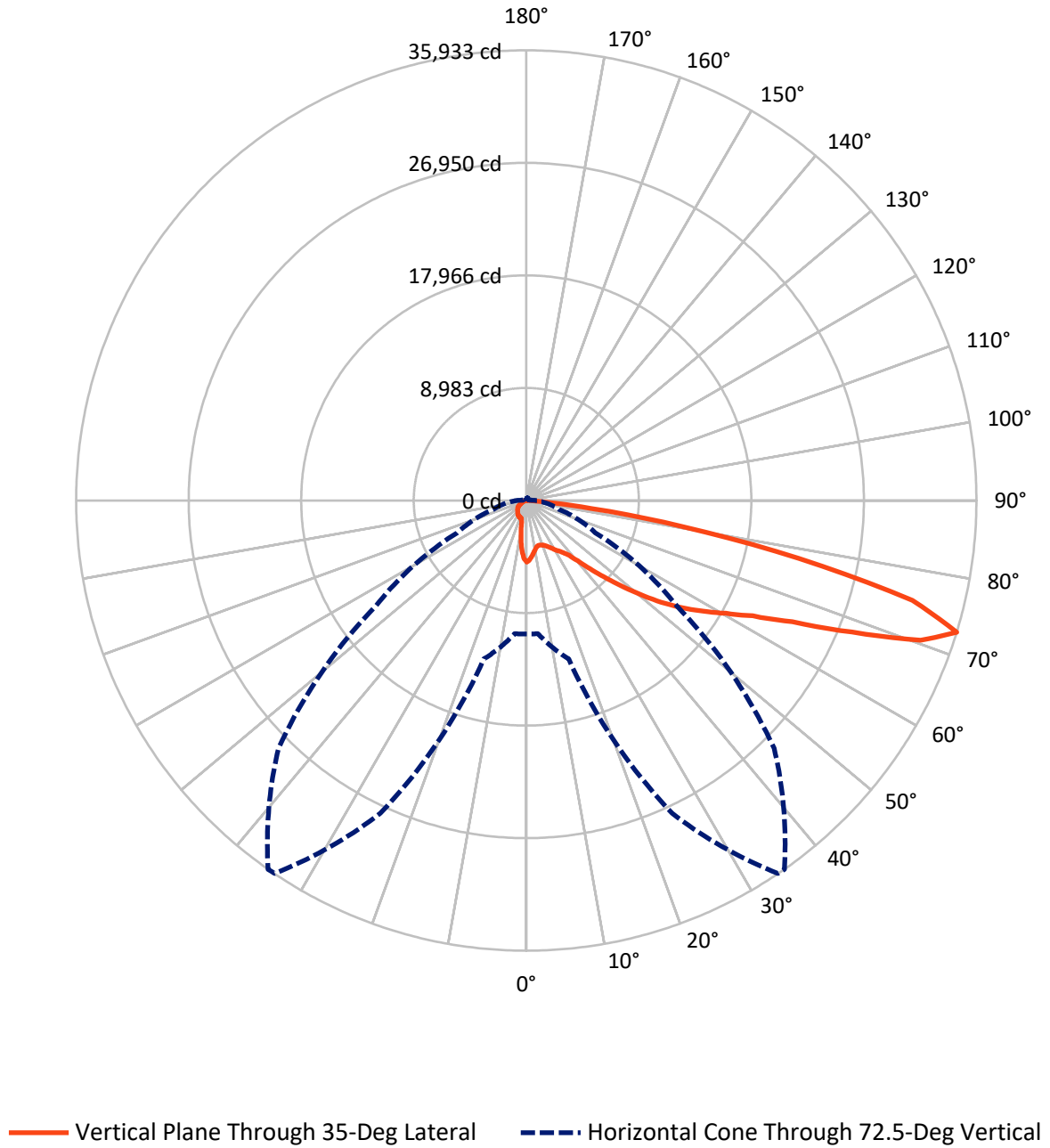
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P885290
CATALOG NUMBER: NAV-SB6C-730-U-T4FT-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3812.9	0.0	3812.9
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	30066.1	0.0	30066.1
	% Fixture	88.7	0.0	88.7
Total	Lumens	33879.0	0.0	33879.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.5	1.2
10°-20°	943.9	2.8
20°-30°	1533.4	4.5
30°-40°	2558.4	7.6
40°-50°	4840.6	14.3
50°-60°	7691.6	22.7
60°-70°	9515.1	28.1
70°-80°	5914.6	17.5
80°-90°	478.0	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°	33879.0	100.0
0°-180°	33879.0	100.0



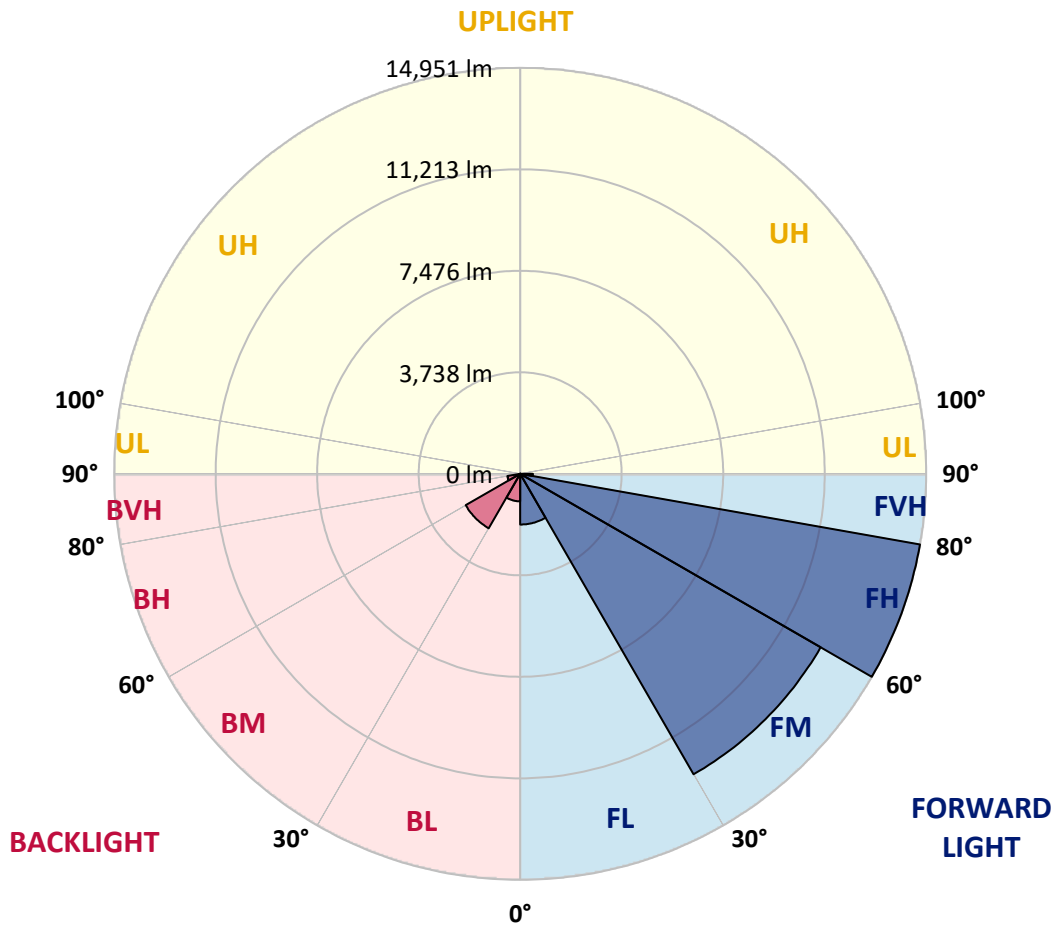
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1867.6	5.5			
FM (30°-60°)	12775.8	37.7			
FH (60°-80°)	14951.2	44.1			G5
FVH (80°-90°)	471.5	1.4			G3/500
BL (0°-30°)	1013.2	3.0	B3/2500		
BM (30°-60°)	2314.8	6.8	B2/2500		
BH (60°-80°)	478.5	1.4	B1/500		G1/500
BVH (80°-90°)	6.5	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-G5

Type IV Short



REPORT NUMBER: P885290

CATALOG NUMBER: NAV-SB6C-730-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4910.2	4910.2	4910.2	4910.2	4910.2	4910.2	4910.2	4910.2	4910.2	4910.2	4910.2
2.5°	4691.8	4731.5	4738.9	4751.3	4751.3	4766.2	4791.0	4825.8	4882.9	4912.7	4932.5
5°	4324.4	4354.1	4391.4	4421.2	4478.3	4485.7	4582.5	4676.9	4808.4	4907.7	4977.2
7.5°	3954.5	3989.2	4038.9	4110.9	4185.3	4207.7	4354.1	4513.0	4721.5	4907.7	5024.4
10°	3693.8	3696.3	3741.0	3813.0	3932.1	3959.4	4138.2	4364.1	4624.7	4877.9	5069.1
12.5°	3547.4	3564.7	3584.6	3639.2	3753.4	3770.8	3961.9	4227.5	4527.9	4860.6	5121.2
15°	3547.4	3559.8	3572.2	3599.5	3691.3	3706.2	3875.0	4140.7	4478.3	4868.0	5205.6
17.5°	3584.6	3604.5	3594.5	3626.8	3723.6	3733.5	3882.5	4115.8	4475.8	4915.2	5334.7
20°	3674.0	3688.9	3669.0	3688.9	3785.7	3805.5	3959.4	4163.0	4518.0	4997.1	5496.1
22.5°	3815.5	3822.9	3775.7	3790.6	3889.9	3914.8	4093.5	4297.0	4619.8	5128.7	5712.0
25°	3994.2	4009.1	3937.1	3954.5	4048.8	4078.6	4284.6	4498.1	4781.1	5309.9	5987.6
27.5°	4200.2	4207.7	4145.6	4143.1	4264.8	4307.0	4515.5	4746.4	4997.1	5538.3	6335.1
30°	4436.1	4458.4	4398.8	4388.9	4542.8	4577.6	4783.6	5051.7	5314.8	5880.8	6829.1
32.5°	4622.2	4639.6	4604.9	4629.7	4786.1	4813.4	5108.8	5483.6	5813.8	6367.4	7501.8
35°	4890.3	4900.3	4820.8	4865.5	5044.3	5113.8	5553.1	6089.3	6441.8	6978.0	8380.6
37.5°	5861.0	5861.0	5523.4	5302.4	5473.7	5535.8	6161.3	6851.4	7216.4	7797.2	9487.8
40°	7203.9	7181.6	6687.6	6235.8	6213.5	6335.1	7027.7	7812.1	8216.8	8780.3	10733.9
42.5°	8636.3	8601.5	7928.8	7482.0	7407.5	7449.7	8028.1	8996.2	9408.3	9979.3	12074.4
45°	9907.3	9897.4	9281.7	8681.0	8546.9	8681.0	9276.8	10381.4	10676.8	11277.6	13412.5
47.5°	10972.2	10972.2	10522.9	10130.7	10061.2	10140.6	10967.3	11918.0	11890.7	12660.3	14715.7
50°	12198.6	12188.6	11761.6	11592.8	11664.8	11776.5	12913.5	13536.6	13146.8	14018.2	15880.0
52.5°	13057.5	13117.0	12970.6	12943.3	13310.7	13504.3	14889.5	15120.3	14271.4	15306.5	16751.3
55°	13737.6	13807.2	13976.0	14167.1	14874.6	15127.8	16803.4	16622.2	15212.2	16423.6	17252.7
57.5°	14700.8	14601.5	14862.2	15239.5	16383.9	16689.2	18657.8	18039.7	15969.3	17329.7	17307.3
60°	15870.0	15884.9	15929.6	16406.2	17890.7	18282.9	20484.8	19380.2	16455.9	17885.7	16701.6
62.5°	17275.1	17297.4	17389.3	18121.6	19913.9	20283.8	22431.0	20477.4	16679.3	17729.4	15137.7
65°	17178.3	17272.6	18297.8	20802.6	22989.6	23354.5	24702.4	21246.9	16341.7	16299.5	12325.2
67.5°	15649.1	15803.0	17518.4	24004.9	27626.7	28033.8	27448.0	21398.4	14884.5	12675.2	8040.5
70°	13643.3	13697.9	15760.8	26884.5	32996.2	33408.2	29905.6	19732.7	11295.0	7069.9	3602.0
72.5°	10654.5	10666.9	13087.3	27552.2	35910.5	35932.9	27976.7	14648.7	6074.5	2715.8	1251.1
75°	7611.1	7536.6	8765.4	22344.2	31593.6	31846.8	20973.9	6871.3	2321.1	1283.4	623.1
77.5°	4081.1	4163.0	4959.9	13251.1	21825.3	22257.3	11443.9	1981.0	1181.6	873.8	412.1
80°	1261.1	1330.6	2033.1	6067.0	12362.4	12623.0	4242.4	881.3	824.2	623.1	270.6
82.5°	397.2	412.1	948.3	2549.4	5131.1	5250.3	1228.8	499.0	563.5	412.1	158.9
85°	114.2	116.7	422.0	950.8	1268.5	1293.3	345.1	193.6	322.7	255.7	81.9
87.5°	12.4	39.7	158.9	158.9	111.7	109.2	37.2	42.2	91.8	32.3	14.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P885290
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4910.2	4910.2	4910.2	4910.2	4910.2	4910.2	4910.2	4910.2	4910.2	4910.2	4910.2
2.5°	4920.1	4922.6	4890.3	4835.7	4776.2	4726.5	4664.4	4614.8	4580.0	4570.1	4587.5
5°	4954.9	4937.5	4845.7	4679.3	4480.7	4309.5	4118.3	3966.9	3867.6	3825.4	3840.3
7.5°	5007.0	4957.4	4756.3	4428.6	4048.8	3711.2	3368.6	3103.0	2934.2	2849.8	2862.2
10°	5051.7	4952.4	4607.3	4066.2	3485.3	2973.9	2512.2	2192.0	2013.2	1928.8	1931.3
12.5°	5093.9	4949.9	4413.7	3636.7	2849.8	2224.2	1794.8	1635.9	1586.3	1568.9	1563.9
15°	5173.3	4957.4	4170.4	3145.2	2216.8	1680.6	1524.2	1521.7	1531.6	1526.7	1524.2
17.5°	5282.6	4964.8	3894.9	2623.9	1710.4	1482.0	1474.6	1496.9	1511.8	1504.3	1501.9
20°	5424.1	4994.6	3602.0	2107.6	1469.6	1432.3	1449.7	1469.6	1482.0	1469.6	1467.1
22.5°	5622.7	5046.7	3281.7	1693.0	1392.6	1402.6	1417.5	1439.8	1452.2	1434.8	1432.3
25°	5865.9	5128.7	2966.5	1472.1	1355.4	1367.8	1390.1	1415.0	1429.9	1412.5	1410.0
27.5°	6181.2	5260.2	2676.0	1422.4	1318.2	1325.6	1357.9	1395.1	1415.0	1392.6	1392.6
30°	6638.0	5476.2	2425.3	1444.8	1295.8	1278.4	1323.1	1375.3	1397.6	1377.7	1375.3
32.5°	7243.7	5781.5	2271.4	1479.5	1285.9	1223.8	1266.0	1333.1	1370.3	1357.9	1357.9
35°	8038.0	6245.7	2211.8	1519.2	1278.4	1166.7	1196.5	1268.5	1333.1	1345.5	1345.5
37.5°	9001.2	6891.2	2229.2	1536.6	1256.1	1119.6	1134.5	1196.5	1280.9	1320.6	1330.6
40°	10096.0	7643.3	2328.5	1519.2	1231.3	1079.8	1082.3	1129.5	1204.0	1263.5	1283.4
42.5°	11225.4	8522.1	2512.2	1454.7	1208.9	1045.1	1037.6	1069.9	1119.6	1161.8	1179.1
45°	12300.3	9425.7	2693.4	1365.3	1181.6	1010.3	993.0	1005.4	1015.3	1032.7	1042.6
47.5°	13238.7	10061.2	2641.3	1283.4	1144.4	970.6	940.8	935.9	906.1	903.6	901.1
50°	13886.6	10200.2	2345.9	1201.5	1089.8	925.9	878.8	849.0	796.9	772.0	774.5
52.5°	14092.6	9651.6	1916.4	1119.6	1000.4	866.4	799.3	752.2	687.6	665.3	662.8
55°	13819.6	8576.7	1531.6	1020.3	876.3	786.9	712.5	650.4	598.3	571.0	571.0
57.5°	13151.8	7208.9	1211.4	903.6	744.7	697.6	623.1	561.0	516.3	489.0	484.1
60°	12044.6	5724.4	958.2	764.6	635.5	600.7	523.8	484.1	444.4	412.1	404.6
62.5°	10364.1	4086.0	752.2	605.7	531.2	491.5	446.8	417.0	369.9	325.2	317.7
65°	8087.7	2499.8	580.9	444.4	427.0	407.1	379.8	352.5	295.4	250.7	243.3
67.5°	5101.3	1184.1	414.6	335.1	337.6	327.7	315.3	292.9	250.7	211.0	206.0
70°	2246.6	573.4	273.1	255.7	250.7	250.7	260.7	253.2	213.5	176.3	168.8
72.5°	764.6	307.8	203.6	193.6	181.2	178.7	218.5	211.0	171.3	136.5	129.1
75°	399.7	206.0	148.9	139.0	109.2	131.6	173.8	163.8	121.6	89.4	81.9
77.5°	260.7	146.5	101.8	89.4	62.1	86.9	129.1	114.2	72.0	44.7	39.7
80°	163.8	96.8	59.6	42.2	29.8	47.2	69.5	49.6	27.3	9.9	7.4
82.5°	86.9	49.6	22.3	14.9	12.4	14.9	17.4	12.4	5.0	0.0	0.0
85°	34.8	17.4	7.4	5.0	2.5	0.0	5.0	2.5	0.0	0.0	0.0
87.5°	12.4	2.5	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)