

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: P885440

Luminaire Tested: **NAV-SB6D-722-U-T4FT-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885440
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-SB6D-722-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 900mA 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: 37266 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

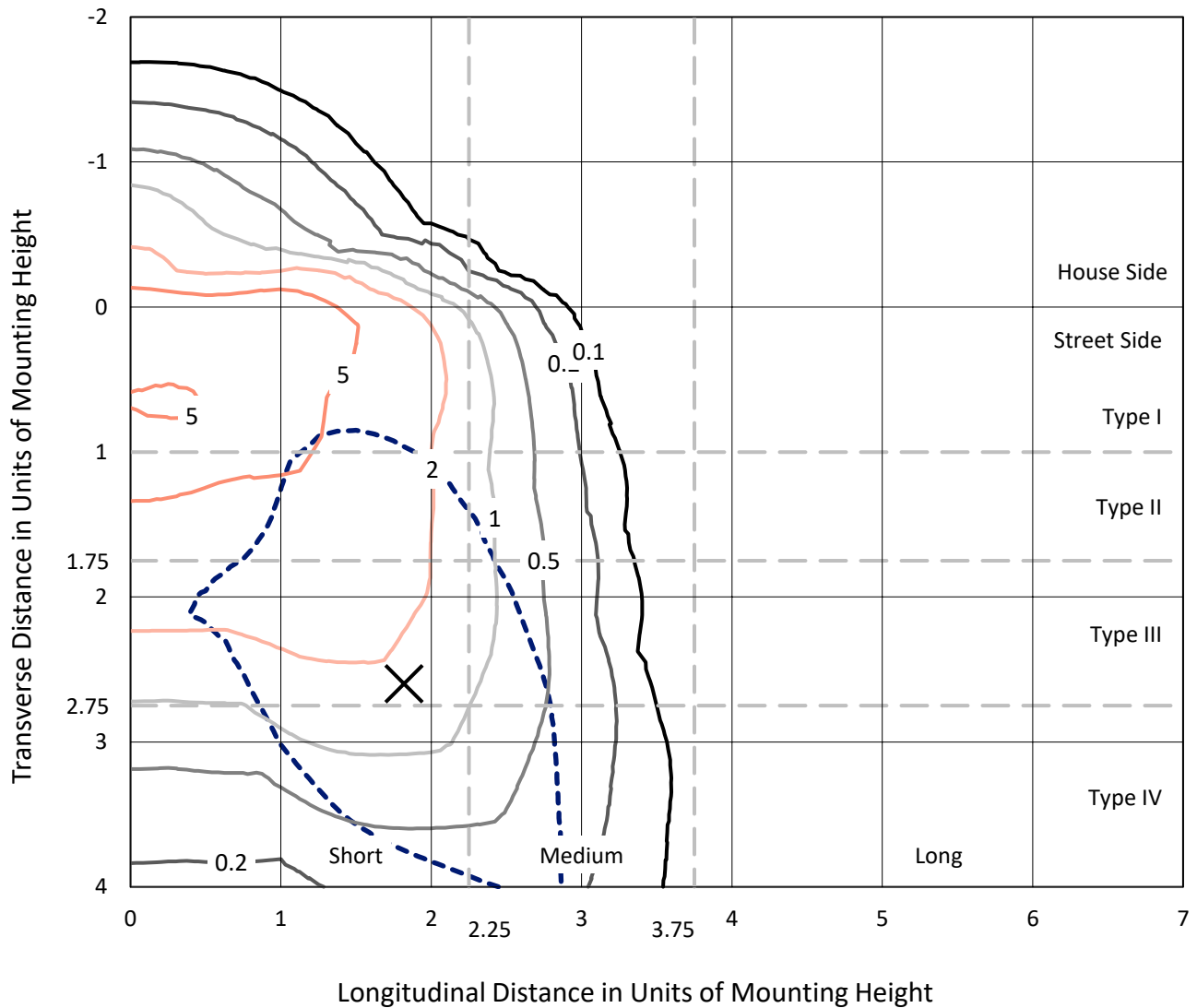
Input Watts (W): 440.1
Input Voltage (V): 120.0
Input Current (Ain): 3.68
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P885440
 CATALOG NUMBER: NAV-SB6D-722-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

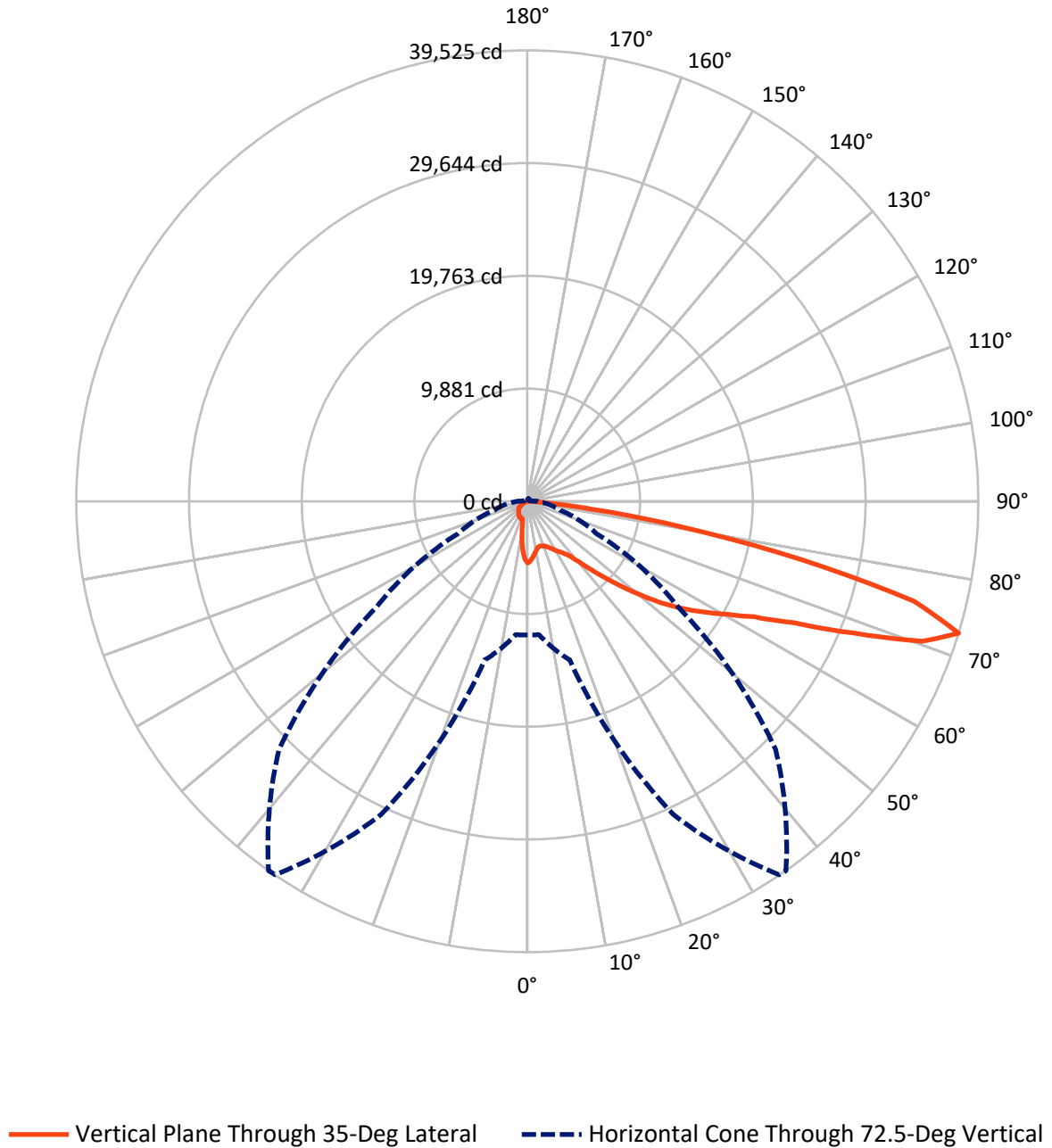
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P885440
CATALOG NUMBER: NAV-SB6D-722-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P885440
 CATALOG NUMBER: NAV-SB6D-722-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4194.1	0.0	4194.1
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	33071.9	0.0	33071.9
	% Fixture	88.7	0.0	88.7
Total	Lumens	37266.0	0.0	37266.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.8	1.2
10°-20°	1038.3	2.8
20°-30°	1686.7	4.5
30°-40°	2814.2	7.6
40°-50°	5324.5	14.3
50°-60°	8460.6	22.7
60°-70°	10466.3	28.1
70°-80°	6505.9	17.5
80°-90°	525.8	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°	37266.0	100.0
0°-180°	37266.0	100.0

Coefficient of Utilization



REPORT NUMBER: P885440

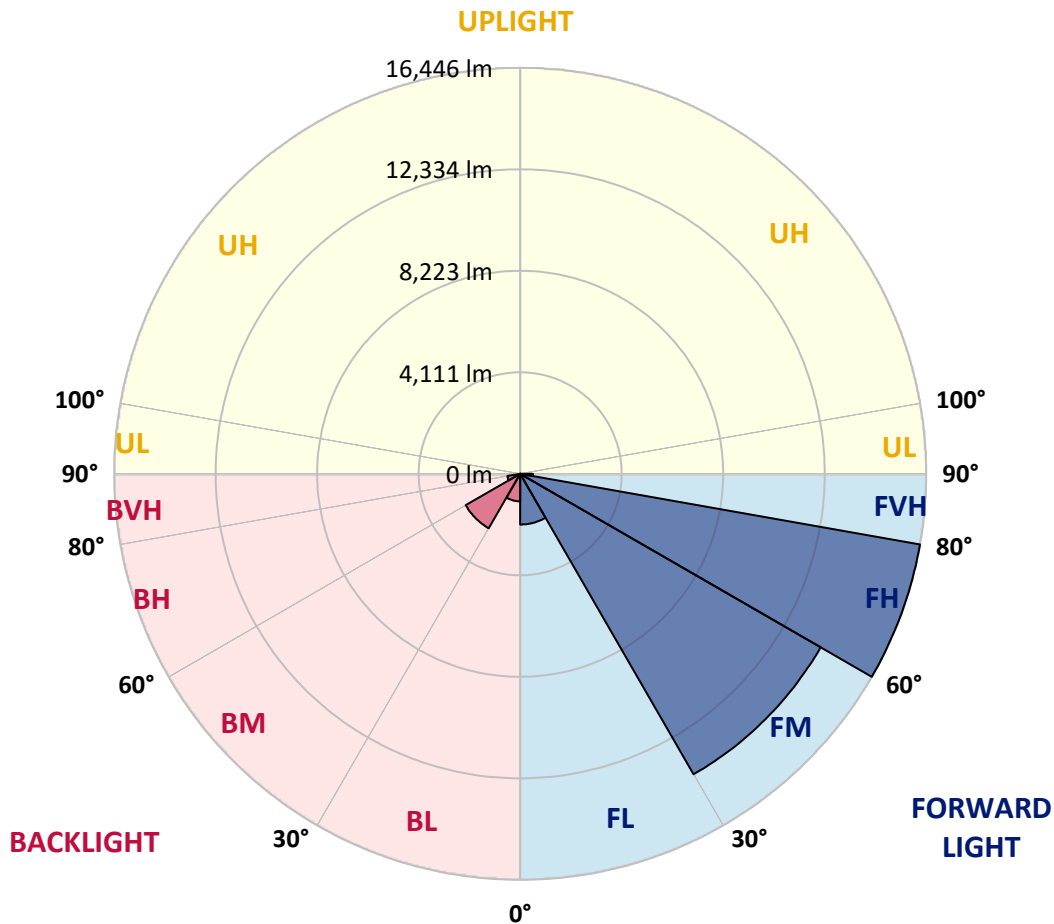
CATALOG NUMBER: NAV-SB6D-722-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2054.3	5.5			
FM (30°-60°)	14053.0	37.7			
FH (60°-80°)	16445.9	44.1			G5
FVH (80°-90°)	518.6	1.4			G4/750
BL (0°-30°)	1114.5	3.0	B3/2500		
BM (30°-60°)	2546.2	6.8	B3/5000		
BH (60°-80°)	526.3	1.4	B2/1000		G2/1000
BVH (80°-90°)	7.2	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: P885440
 CATALOG NUMBER: NAV-SB6D-722-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	5401.1	5401.1	5401.1	5401.1	5401.1	5401.1	5401.1	5401.1	5401.1	5401.1	5401.1
2.5°	5160.8	5204.5	5212.7	5226.3	5226.3	5242.7	5270.0	5308.3	5371.1	5403.8	5425.7
5°	4756.7	4789.4	4830.4	4863.2	4926.0	4934.2	5040.7	5144.4	5289.1	5398.4	5474.8
7.5°	4349.8	4388.0	4442.7	4521.8	4603.8	4628.3	4789.4	4964.2	5193.6	5398.4	5526.7
10°	4063.1	4065.8	4115.0	4194.2	4325.2	4355.3	4551.9	4800.4	5087.1	5365.6	5575.9
12.5°	3902.0	3921.1	3943.0	4003.0	4128.6	4147.8	4358.0	4650.2	4980.6	5346.5	5633.2
15°	3902.0	3915.7	3929.3	3959.3	4060.4	4076.8	4262.4	4554.6	4926.0	5354.7	5726.0
17.5°	3943.0	3964.8	3953.9	3989.4	4095.9	4106.8	4270.6	4527.3	4923.2	5406.6	5868.0
20°	4041.3	4057.6	4035.8	4057.6	4164.1	4186.0	4355.3	4579.2	4969.7	5496.7	6045.5
22.5°	4196.9	4205.1	4153.2	4169.6	4278.8	4306.1	4502.7	4726.6	5081.6	5641.4	6283.1
25°	4393.5	4409.9	4330.7	4349.8	4453.6	4486.3	4713.0	4947.8	5259.1	5840.7	6586.2
27.5°	4620.1	4628.3	4560.1	4557.3	4691.1	4737.6	4966.9	5220.9	5496.7	6091.9	6968.4
30°	4879.6	4904.1	4838.6	4827.7	4997.0	5035.2	5261.8	5556.7	5846.2	6468.8	7511.8
32.5°	5084.3	5103.5	5065.2	5092.5	5264.6	5294.6	5619.5	6031.9	6395.0	7003.9	8251.8
35°	5379.2	5390.2	5302.8	5351.9	5548.5	5625.0	6108.3	6698.1	7085.9	7675.7	9218.4
37.5°	6446.9	6446.9	6075.5	5832.5	6020.9	6089.2	6777.3	7536.4	7937.8	8576.8	10436.3
40°	7924.2	7899.6	7356.2	6859.2	6834.6	6968.4	7730.3	8593.1	9038.2	9658.1	11807.0
42.5°	9499.7	9461.5	8721.5	8230.0	8148.1	8194.5	8830.7	9895.6	10348.9	10976.9	13281.6
45°	10897.8	10886.8	10209.6	9548.8	9401.4	9548.8	10204.2	11419.3	11744.2	12405.0	14753.3
47.5°	12069.2	12069.2	11574.9	11143.5	11067.1	11154.4	12063.7	13109.5	13079.5	13926.0	16186.9
50°	13418.1	13407.2	12937.5	12751.8	12831.0	12953.9	14204.5	14889.9	14461.2	15419.6	17467.5
52.5°	14362.9	14428.4	14267.3	14237.3	14641.4	14854.4	16378.0	16632.0	15698.1	16836.8	18426.0
55°	15111.0	15187.5	15373.2	15583.4	16361.7	16640.2	18483.3	18284.0	16733.0	18065.5	18977.6
57.5°	16170.5	16061.3	16348.0	16763.0	18021.8	18357.7	20523.1	19843.1	17565.8	19062.2	19037.6
60°	17456.6	17473.0	17522.2	18046.4	19679.3	20110.7	22532.8	21317.7	18101.0	19673.8	18371.4
62.5°	19002.1	19026.7	19127.7	19933.3	21904.7	22311.6	24673.5	22524.6	18346.8	19501.8	16651.1
65°	18895.6	18999.4	20127.1	22882.3	25287.9	25689.3	27172.0	23371.1	17975.4	17929.0	13557.3
67.5°	17213.6	17382.9	19269.7	26404.7	30388.7	30836.5	30192.1	23537.6	16372.6	13942.4	8844.4
70°	15007.3	15067.4	17336.5	29572.2	36294.9	36748.2	32895.3	21705.4	12424.2	7776.7	3962.1
72.5°	11719.7	11733.3	14395.6	30306.7	39500.6	39525.2	30773.7	16113.2	6681.7	2987.3	1376.2
75°	8372.0	8290.0	9641.7	24578.0	34752.1	35030.6	23070.7	7558.3	2553.1	1411.7	685.4
77.5°	4489.1	4579.2	5455.7	14575.9	24007.3	24482.4	12588.0	2179.0	1299.8	961.2	453.3
80°	1387.1	1463.6	2236.3	6673.5	13598.3	13885.0	4666.6	969.4	906.6	685.4	297.6
82.5°	436.9	453.3	1043.1	2804.3	5644.1	5775.2	1351.6	548.8	619.8	453.3	174.8
85°	125.6	128.3	464.2	1045.8	1395.3	1422.6	379.6	213.0	355.0	281.3	90.1
87.5°	13.7	43.7	174.8	174.8	122.9	120.1	41.0	46.4	101.0	35.5	16.4
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: P885440
 CATALOG NUMBER: NAV-SB6D-722-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5401.1	5401.1	5401.1	5401.1	5401.1	5401.1	5401.1	5401.1	5401.1	5401.1	5401.1
2.5°	5412.0	5414.7	5379.2	5319.2	5253.6	5199.0	5130.8	5076.2	5037.9	5027.0	5046.1
5°	5450.2	5431.1	5330.1	5147.1	4928.7	4740.3	4530.0	4363.5	4254.2	4207.8	4224.2
7.5°	5507.6	5453.0	5231.8	4871.4	4453.6	4082.2	3705.4	3413.2	3227.5	3134.7	3148.4
10°	5556.7	5447.5	5068.0	4472.7	3833.7	3271.2	2763.3	2411.1	2214.5	2121.7	2124.4
12.5°	5603.2	5444.8	4855.0	4000.3	3134.7	2446.6	1974.2	1799.5	1744.8	1725.7	1720.3
15°	5690.5	5453.0	4587.4	3459.6	2438.4	1848.6	1676.6	1673.8	1684.8	1679.3	1676.6
17.5°	5810.7	5461.2	4284.3	2886.2	1881.4	1630.2	1622.0	1646.5	1662.9	1654.7	1652.0
20°	5966.3	5493.9	3962.1	2318.3	1616.5	1575.5	1594.7	1616.5	1630.2	1616.5	1613.8
22.5°	6184.8	5551.3	3609.8	1862.3	1531.9	1542.8	1559.2	1583.7	1597.4	1578.3	1575.5
25°	6452.4	5641.4	3263.0	1619.2	1490.9	1504.6	1529.1	1556.4	1572.8	1553.7	1551.0
27.5°	6799.2	5786.1	2943.6	1564.6	1449.9	1458.1	1493.6	1534.6	1556.4	1531.9	1531.9
30°	7301.6	6023.7	2667.8	1589.2	1425.4	1406.3	1455.4	1512.7	1537.3	1515.5	1512.7
32.5°	7967.8	6359.5	2498.5	1627.4	1414.4	1346.2	1392.6	1466.3	1507.3	1493.6	1493.6
35°	8841.6	6870.1	2432.9	1671.1	1406.3	1283.4	1316.1	1395.3	1466.3	1480.0	1480.0
37.5°	9901.1	7580.1	2452.1	1690.2	1381.7	1231.5	1247.9	1316.1	1409.0	1452.7	1463.6
40°	11105.3	8407.5	2561.3	1671.1	1354.4	1187.8	1190.5	1242.4	1324.3	1389.9	1411.7
42.5°	12347.7	9374.1	2763.3	1600.1	1329.8	1149.6	1141.4	1176.9	1231.5	1277.9	1297.0
45°	13530.0	10368.0	2962.7	1501.8	1299.8	1111.3	1092.2	1105.9	1116.8	1135.9	1146.8
47.5°	14562.2	11067.1	2905.3	1411.7	1258.8	1067.7	1034.9	1029.4	996.7	993.9	991.2
50°	15274.9	11220.0	2580.4	1321.6	1198.7	1018.5	966.6	933.9	876.5	849.2	851.9
52.5°	15501.5	10616.5	2108.0	1231.5	1100.4	953.0	879.2	827.4	756.4	731.8	729.1
55°	15201.2	9434.2	1684.8	1122.3	963.9	865.6	783.7	715.4	658.1	628.0	628.0
57.5°	14466.6	7929.6	1332.5	993.9	819.2	767.3	685.4	617.1	568.0	537.9	532.5
60°	13248.8	6296.7	1054.0	841.0	699.0	660.8	576.2	532.5	488.8	453.3	445.1
62.5°	11400.2	4494.5	827.4	666.3	584.3	540.7	491.5	458.7	406.9	357.7	349.5
65°	8896.2	2749.7	639.0	488.8	469.7	447.8	417.8	387.7	324.9	275.8	267.6
67.5°	5611.3	1302.5	456.0	368.6	371.4	360.4	346.8	322.2	275.8	232.1	226.6
70°	2471.2	630.8	300.4	281.3	275.8	275.8	286.7	278.5	234.8	193.9	185.7
72.5°	841.0	338.6	223.9	213.0	199.3	196.6	240.3	232.1	188.4	150.2	142.0
75°	439.6	226.6	163.8	152.9	120.1	144.7	191.1	180.2	133.8	98.3	90.1
77.5°	286.7	161.1	112.0	98.3	68.3	95.6	142.0	125.6	79.2	49.2	43.7
80°	180.2	106.5	65.5	46.4	32.8	51.9	76.5	54.6	30.0	10.9	8.2
82.5°	95.6	54.6	24.6	16.4	13.7	16.4	19.1	13.7	5.5	0.0	0.0
85°	38.2	19.1	8.2	5.5	2.7	0.0	5.5	2.7	0.0	0.0	0.0
87.5°	13.7	2.7	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)