

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: P884946

Luminaire Tested: **NAV-SB6A-730-U-T2-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884946
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-730-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19571 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

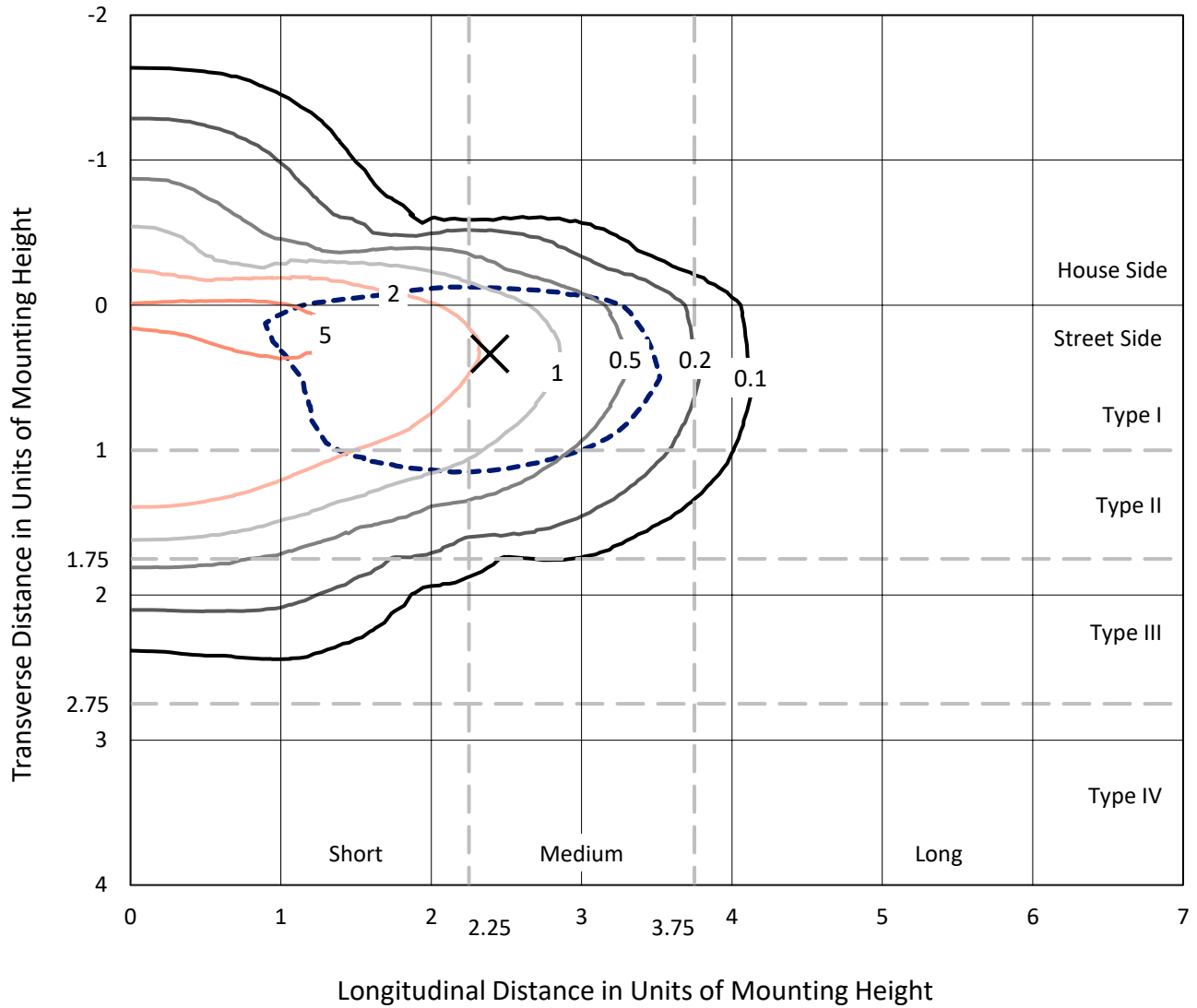
Input Watts (W): 170.9
Input Voltage (V): 120.0
Input Current (Ain): 1.434
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

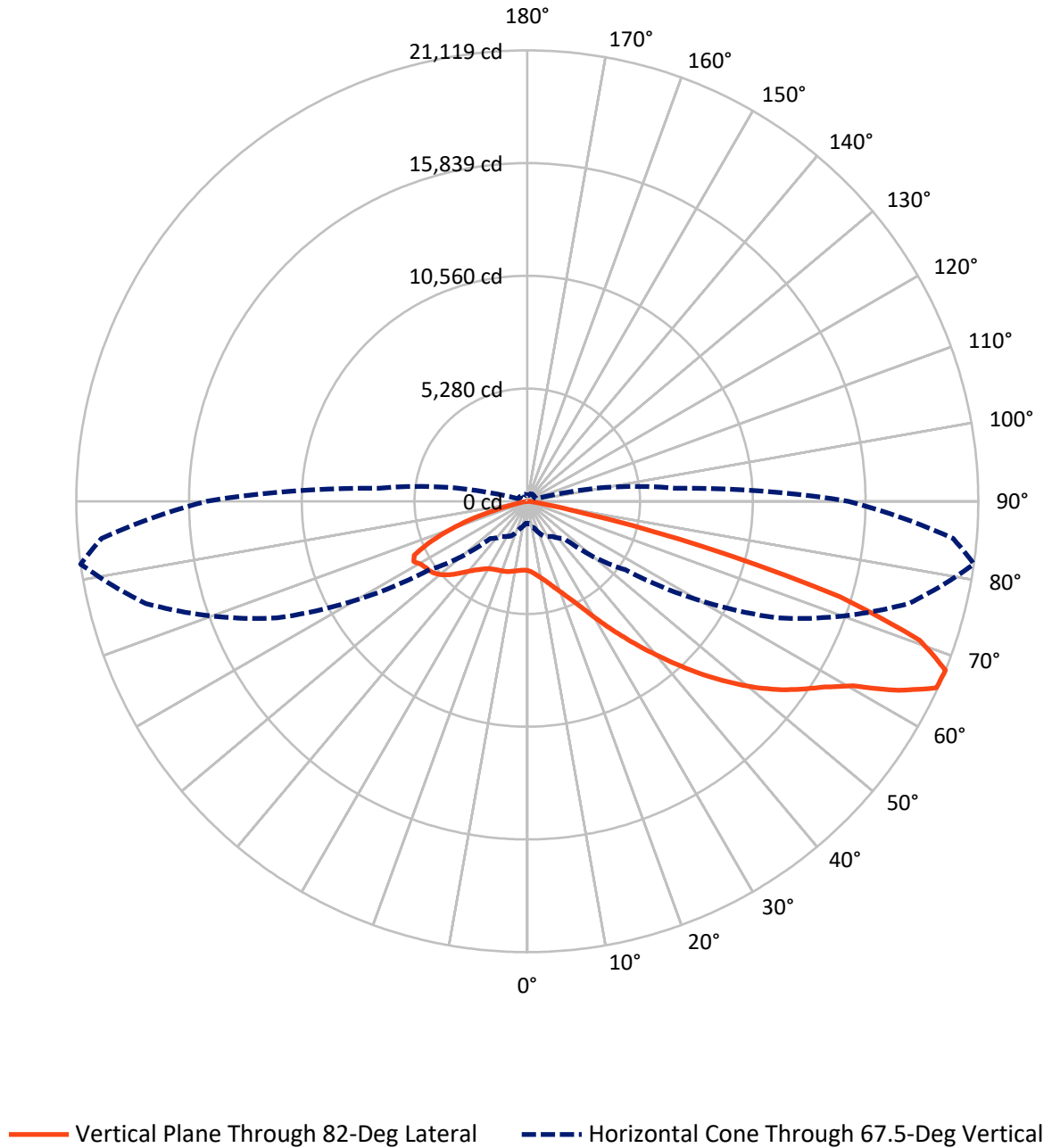
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3545.1	0.0	3545.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	16025.9	0.0	16025.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	19571.0	0.0	19571.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.9	1.5
10°-20°	750.6	3.8
20°-30°	1202.3	6.1
30°-40°	2126.0	10.9
40°-50°	3724.9	19.0
50°-60°	4968.0	25.4
60°-70°	4625.0	23.6
70°-80°	1775.1	9.1
80°-90°	110.3	0.6
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°	19571.0	100.0
0°-180°	19571.0	100.0

Coefficient of Utilization



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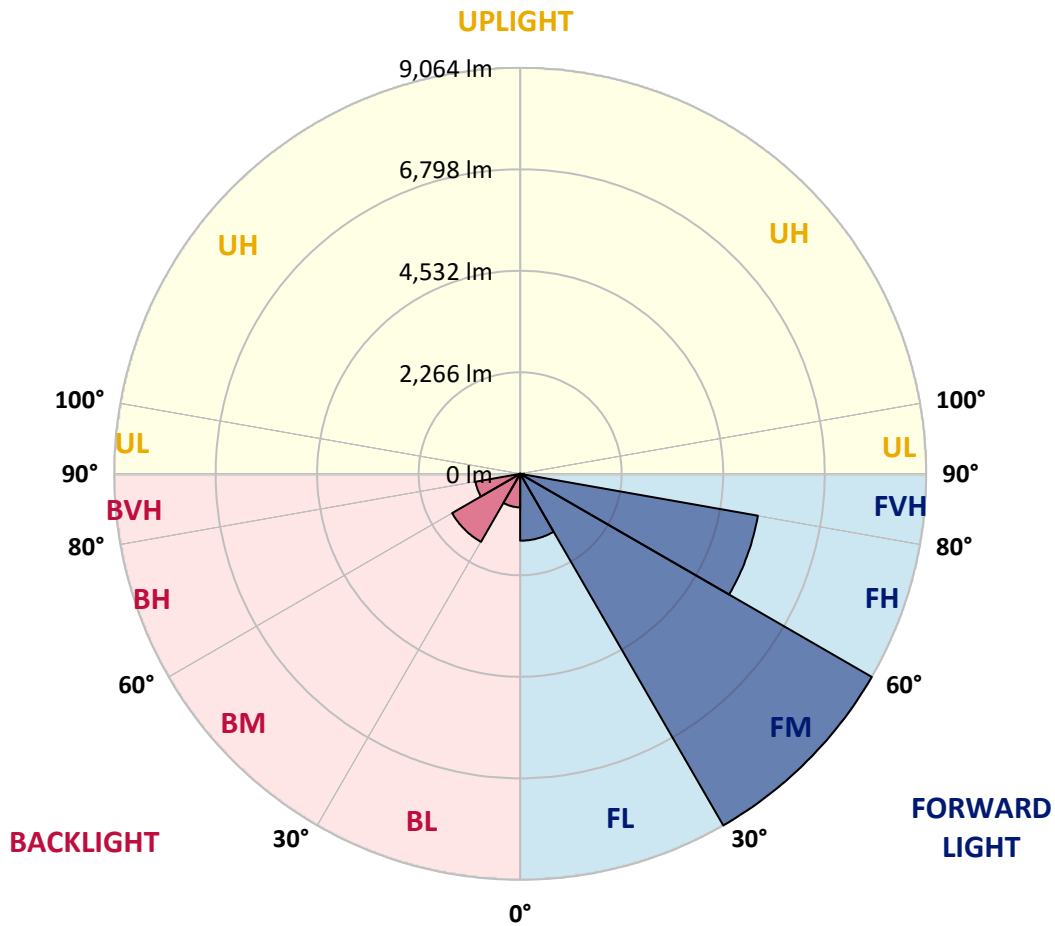
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1493.1	7.6			
FM (30°-60°)	9064.5	46.3			
FH (60°-80°)	5388.2	27.5			G3/7500
FVH (80°-90°)	80.2	0.4			G1/100
BL (0°-30°)	748.7	3.8	B2/1000		
BM (30°-60°)	1754.5	9.0	B2/2500		
BH (60°-80°)	1011.8	5.2	B3/2500		G3/2500
BVH (80°-90°)	30.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	3242.3	3242.3	3242.3	3242.3	3242.3	3242.3	3242.3	3242.3	3242.3	3242.3	3242.3
2.5°	3426.8	3446.6	3435.3	3429.7	3419.8	3405.7	3394.4	3359.2	3322.6	3298.6	3290.2
5°	3495.9	3515.6	3514.2	3519.8	3526.9	3531.1	3528.3	3488.8	3436.7	3395.8	3371.9
7.5°	3436.7	3459.2	3477.6	3505.7	3555.1	3607.2	3632.6	3624.1	3570.6	3514.2	3484.6
10°	3269.0	3293.0	3336.7	3402.9	3507.2	3619.9	3714.3	3758.0	3724.2	3662.2	3621.3
12.5°	2961.8	2985.8	3071.8	3215.5	3390.2	3586.1	3766.4	3883.4	3891.8	3829.8	3781.9
15°	2616.6	2640.6	2732.2	2912.5	3178.8	3493.1	3794.6	4015.8	4090.5	4037.0	3979.2
17.5°	2402.5	2423.6	2492.6	2637.8	2915.3	3307.1	3784.7	4156.7	4327.2	4285.0	4215.9
20°	2337.6	2356.0	2388.4	2489.8	2720.9	3114.0	3719.9	4289.2	4582.3	4558.3	4480.8
22.5°	2406.7	2423.6	2433.5	2478.5	2623.7	2987.2	3638.2	4424.5	4878.2	4881.0	4786.6
25°	2565.9	2582.8	2571.5	2599.7	2663.1	2947.8	3607.2	4583.7	5250.2	5281.2	5174.1
27.5°	2828.0	2829.4	2802.6	2801.2	2811.1	3006.9	3639.6	4754.2	5719.4	5777.2	5644.7
30°	3353.6	3332.4	3229.6	3118.3	3067.5	3184.5	3729.8	4955.7	6273.1	6376.0	6209.7
32.5°	4163.8	4132.8	3944.0	3677.7	3409.9	3470.5	3891.8	5185.3	6876.2	7062.2	6859.3
35°	5043.0	5034.6	4837.3	4441.4	3973.6	3877.7	4155.3	5486.9	7534.3	7830.2	7589.2
37.5°	5860.3	5856.1	5743.3	5276.9	4707.7	4445.6	4578.0	5881.4	8238.8	8667.1	8382.5
40°	6607.1	6619.8	6507.0	6090.0	5516.5	5174.1	5152.9	6369.0	9022.2	9578.8	9240.6
42.5°	7252.4	7266.5	7152.4	6843.8	6315.4	5980.1	5858.9	6966.4	9787.3	10558.1	10157.9
45°	7690.7	7778.0	7761.1	7514.5	7135.5	6787.5	6707.1	7716.0	10659.6	11596.6	11127.4
47.5°	7814.7	7895.0	8021.8	8055.6	7824.5	7482.1	7577.9	8619.2	11541.6	12636.5	12102.4
50°	7508.9	7583.6	7847.1	8197.9	8358.6	8252.9	8424.8	9587.3	12444.8	13673.5	13059.2
52.5°	6905.8	6981.9	7314.4	7869.6	8524.8	8857.4	9274.4	10541.2	13319.9	14655.7	13965.2
55°	6033.6	6113.9	6540.9	7169.3	8207.8	9106.8	9983.2	11493.7	14121.6	15539.1	14782.5
57.5°	4847.2	4906.4	5350.2	6229.5	7410.3	8858.8	10506.0	12533.6	14876.9	16407.1	15592.7
60°	3159.1	3211.3	3727.0	4707.7	6088.6	8030.2	10610.2	13693.3	15880.1	17535.8	16684.7
62.5°	2100.9	2136.1	2441.9	3161.9	4287.8	6439.4	10000.1	14619.0	17351.2	19500.0	18557.4
65°	1441.5	1476.7	1782.5	2284.1	2770.2	4259.6	8245.8	14496.4	18684.2	21059.8	19945.3
67.5°	1028.6	1058.2	1317.5	1790.9	2005.1	2474.3	5589.8	12929.6	18492.5	21119.0	20020.0
70°	736.9	753.8	968.0	1395.0	1593.6	1486.6	3108.4	9888.8	16191.5	19501.4	18495.4
72.5°	515.7	521.4	672.1	1062.4	1283.7	1085.0	1479.5	6593.0	12246.2	15306.6	14338.6
75°	349.4	356.5	452.3	779.2	1030.0	828.5	783.4	3535.3	7189.0	8472.7	7594.8
77.5°	214.2	217.0	291.7	532.6	770.8	631.3	504.4	1497.8	2781.5	2730.8	2327.8
80°	121.2	121.2	186.0	331.1	525.6	407.2	353.7	636.9	880.7	773.6	682.0
82.5°	67.6	69.0	135.3	205.7	348.0	240.9	194.5	294.5	380.4	336.8	293.1
85°	28.2	31.0	83.1	97.2	166.3	119.8	78.9	124.0	140.9	125.4	91.6
87.5°	2.8	4.2	25.4	18.3	19.7	24.0	11.3	24.0	19.7	19.7	14.1
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°	3242.3	3242.3	3242.3	3242.3	3242.3	3242.3	3242.3	3242.3	3242.3	3242.3	3242.3
2.5°	3263.4	3242.3	3188.7	3126.7	3045.0	3005.5	2952.0	2915.3	2884.4	2887.2	2859.0
5°	3326.8	3273.3	3153.5	3004.1	2818.1	2685.7	2544.8	2447.5	2368.6	2351.7	2313.7
7.5°	3414.2	3329.6	3119.7	2850.5	2536.3	2298.2	2085.4	1948.7	1851.5	1820.5	1789.5
10°	3526.9	3404.3	3076.0	2657.5	2205.2	1902.2	1674.0	1566.9	1500.7	1478.1	1461.2
12.5°	3657.9	3490.2	3018.2	2422.2	1864.2	1572.5	1427.4	1373.8	1352.7	1345.7	1341.4
15°	3822.8	3597.3	2930.8	2143.2	1575.3	1371.0	1309.0	1302.0	1304.8	1302.0	1300.6
17.5°	4018.6	3714.3	2788.5	1855.7	1380.9	1268.2	1245.6	1251.2	1258.3	1256.9	1254.1
20°	4232.8	3829.8	2606.8	1600.7	1248.4	1194.9	1182.2	1187.8	1193.5	1190.7	1189.2
22.5°	4476.6	3953.8	2405.3	1402.0	1159.7	1127.2	1113.2	1114.6	1114.6	1108.9	1106.1
25°	4768.3	4090.5	2193.9	1261.1	1092.0	1066.7	1049.8	1044.1	1035.7	1018.8	1015.9
27.5°	5116.3	4235.6	1991.0	1162.5	1038.5	1014.5	994.8	980.7	959.6	931.4	928.6
30°	5508.0	4411.8	1819.1	1100.5	996.2	972.3	949.7	928.6	897.6	862.3	859.5
32.5°	5968.8	4600.6	1693.7	1059.6	958.2	932.8	906.0	880.7	846.8	811.6	813.0
35°	6518.3	4828.9	1620.4	1031.4	928.6	894.8	865.2	837.0	811.6	780.6	777.8
37.5°	7114.4	5071.2	1597.9	1017.3	908.8	856.7	822.9	803.2	800.3	782.0	780.6
40°	7766.8	5358.7	1614.8	1008.9	887.7	820.1	783.4	779.2	786.3	753.8	755.3
42.5°	8457.2	5699.7	1643.0	999.0	858.1	783.4	748.2	748.2	742.6	697.5	697.5
45°	9204.0	6092.8	1671.1	975.1	822.9	746.8	720.0	710.2	686.2	642.5	641.1
47.5°	9956.4	6493.0	1692.3	931.4	780.6	715.8	691.8	669.3	634.1	594.6	593.2
50°	10670.8	6852.3	1669.7	866.6	732.7	686.2	660.9	629.9	591.8	565.0	560.8
52.5°	11309.1	7163.7	1573.9	790.5	682.0	655.2	632.7	600.3	569.3	541.1	538.3
55°	11864.3	7415.9	1404.8	718.6	636.9	628.4	605.9	565.0	522.8	498.8	496.0
57.5°	12396.9	7607.5	1193.5	659.4	596.0	598.9	565.0	528.4	488.9	463.6	460.8
60°	13105.7	7864.0	979.3	604.5	552.4	560.8	524.2	497.4	448.1	415.7	411.4
62.5°	14238.6	8262.7	777.8	536.9	501.6	504.4	488.9	456.5	397.4	359.3	356.5
65°	15137.6	8116.2	612.9	463.6	443.9	448.1	448.1	412.9	349.4	305.8	301.5
67.5°	15036.1	6949.5	488.9	391.7	388.9	391.7	401.6	372.0	310.0	274.8	269.1
70°	13851.1	5527.8	391.7	325.5	338.2	331.1	359.3	339.6	279.0	243.8	239.5
72.5°	11302.1	3982.0	298.7	269.1	259.3	270.5	324.1	305.8	232.5	193.0	188.8
75°	6604.3	2124.9	222.6	212.8	187.4	225.4	287.4	260.7	177.5	142.3	138.1
77.5°	2150.2	741.2	163.5	156.4	139.5	181.8	245.2	219.8	145.1	112.7	108.5
80°	576.3	224.0	111.3	102.9	90.2	135.3	194.5	174.7	104.3	73.3	71.9
82.5°	231.1	94.4	64.8	57.8	49.3	93.0	153.6	140.9	77.5	46.5	46.5
85°	74.7	31.0	24.0	18.3	22.5	57.8	91.6	95.8	55.0	24.0	18.3
87.5°	9.9	4.2	4.2	5.6	4.2	9.9	28.2	26.8	15.5	2.8	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)