

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: P885106

Luminaire Tested: **NAV-SB6B-727-U-T2-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885106
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-SB6B-727-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 450mA 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: 22618 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

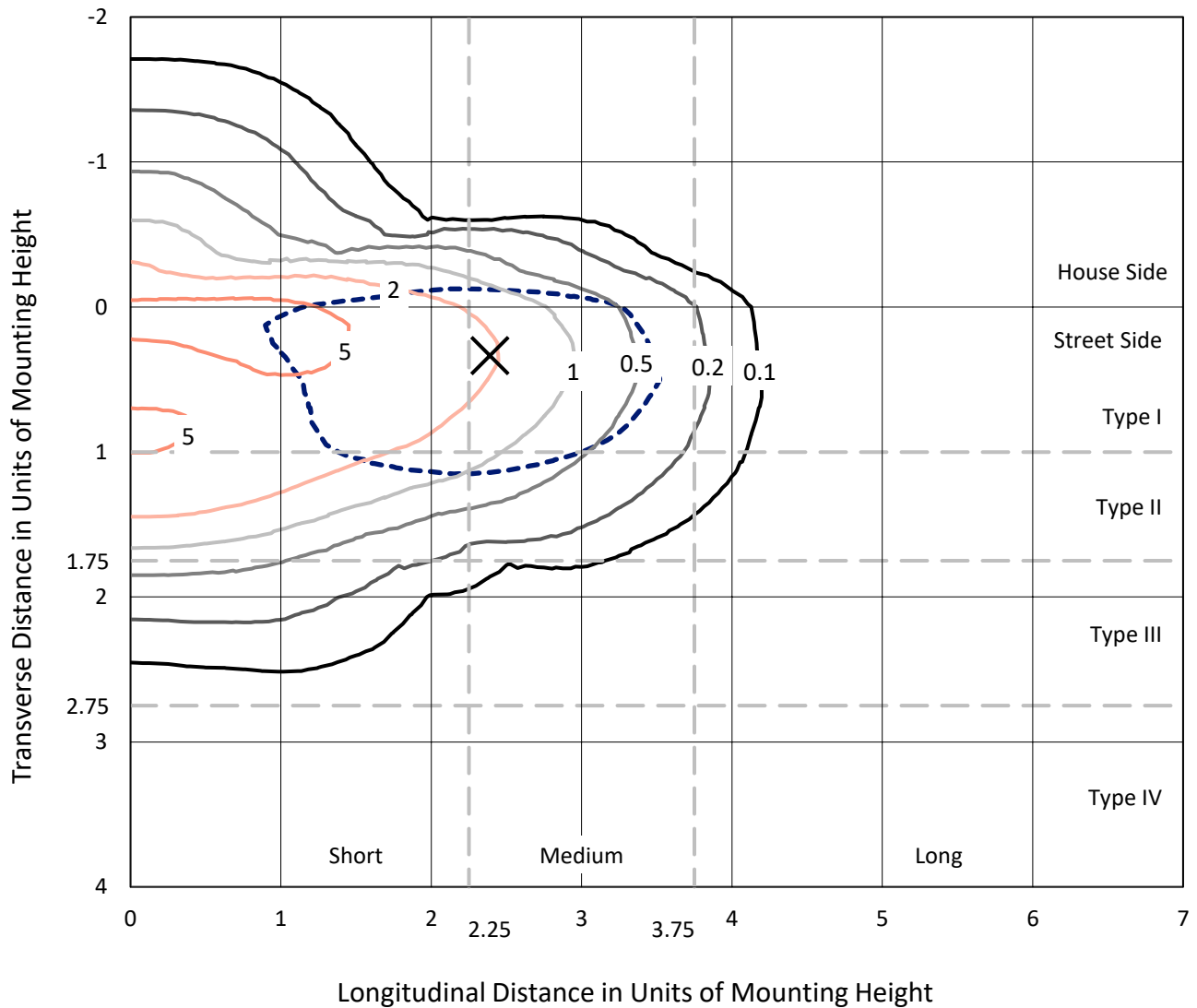
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

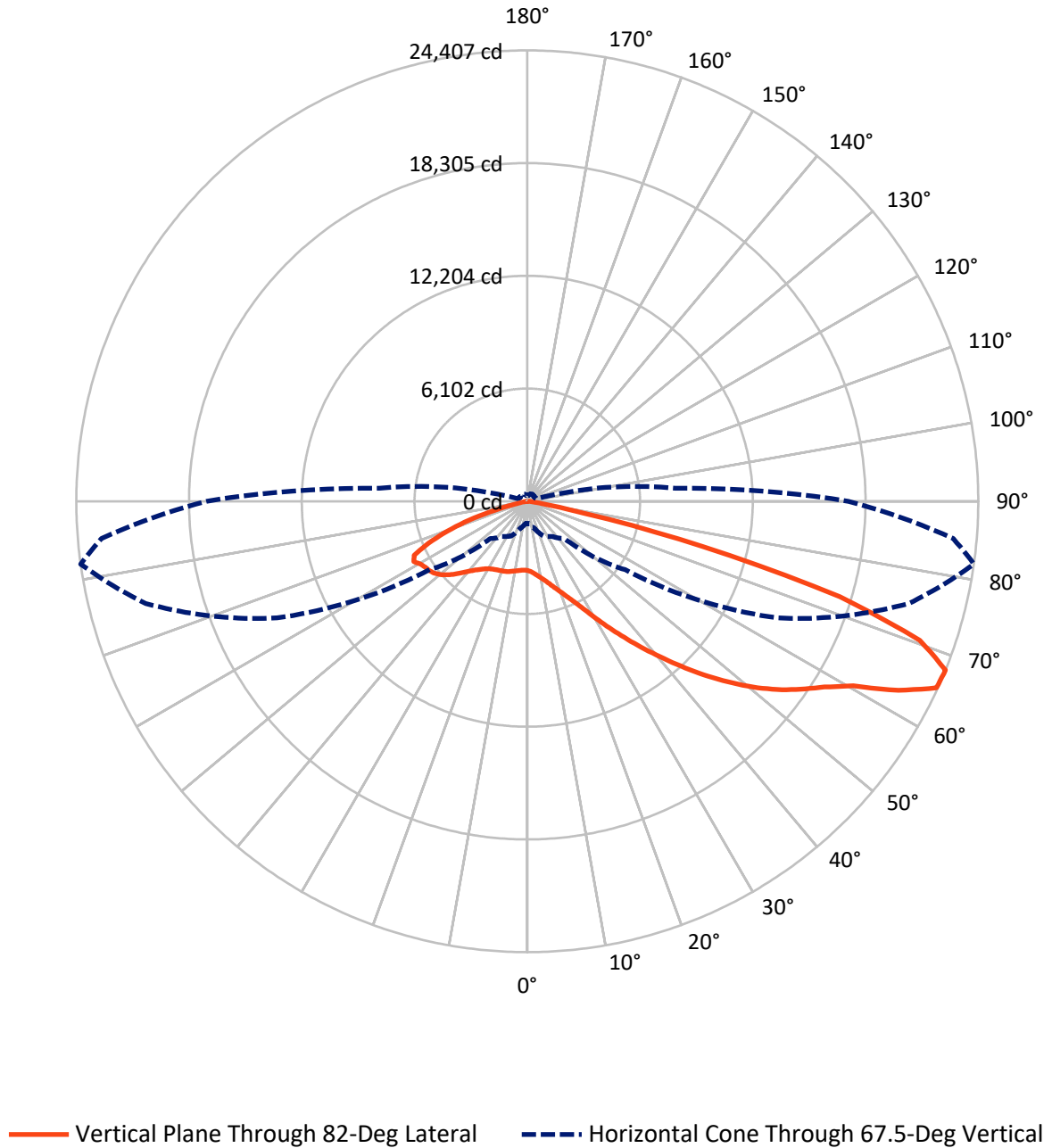
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4097.1	0.0	4097.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	18520.9	0.0	18520.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	22618.0	0.0	22618.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.8	1.5
10°-20°	867.5	3.8
20°-30°	1389.5	6.1
30°-40°	2457.0	10.9
40°-50°	4304.9	19.0
50°-60°	5741.5	25.4
60°-70°	5345.0	23.6
70°-80°	2051.4	9.1
80°-90°	127.4	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°	22618.0	100.0
0°-180°	22618.0	100.0

Coefficient of Utilization



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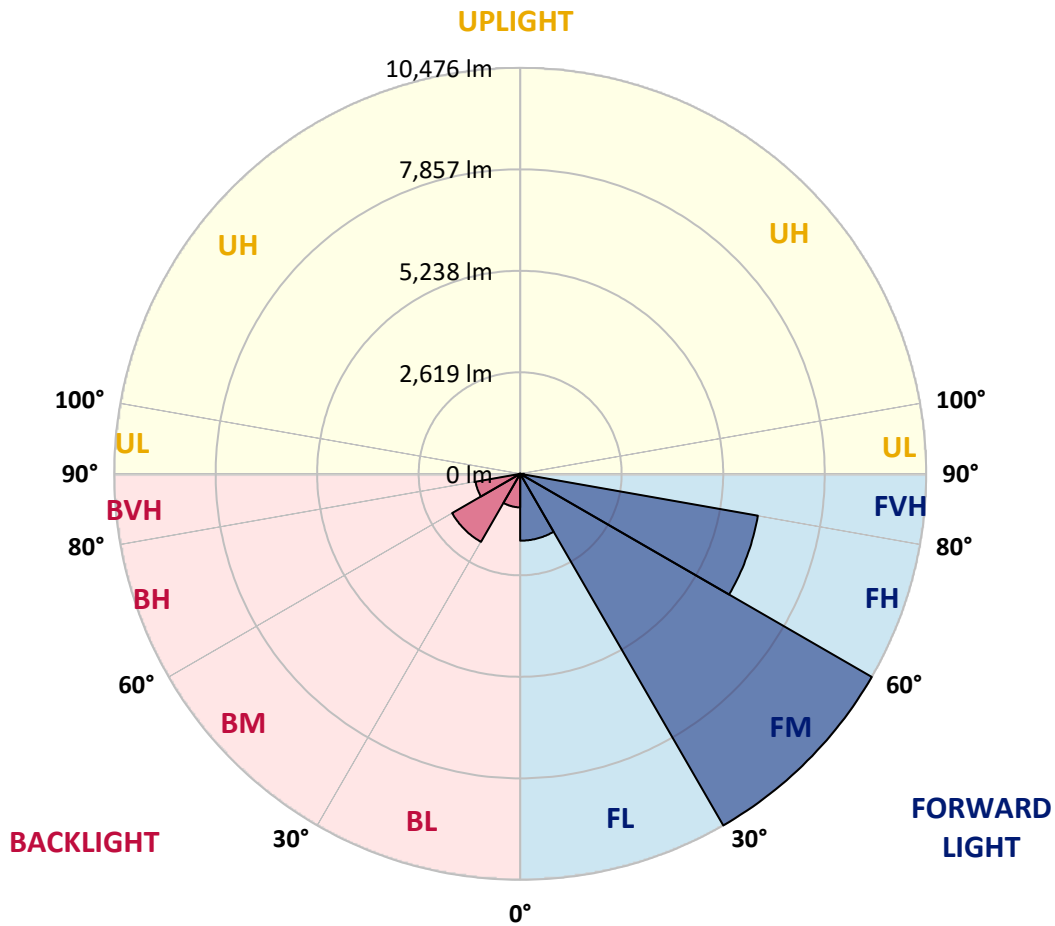
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1725.5	7.6			
FM (30°-60°)	10475.7	46.3			
FH (60°-80°)	6227.1	27.5			G3/7500
FVH (80°-90°)	92.6	0.4			G1/100
BL (0°-30°)	865.3	3.8	B2/1000		
BM (30°-60°)	2027.6	9.0	B2/2500		
BH (60°-80°)	1169.4	5.2	B3/2500		G3/2500
BVH (80°-90°)	34.8	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°	3747.0	3747.0	3747.0	3747.0	3747.0	3747.0	3747.0	3747.0	3747.0	3747.0	3747.0
2.5°	3960.4	3983.2	3970.1	3963.6	3952.2	3935.9	3922.9	3882.2	3839.9	3812.2	3802.4
5°	4040.2	4063.0	4061.3	4067.8	4076.0	4080.9	4077.6	4032.0	3971.8	3924.5	3896.9
7.5°	3971.8	3997.8	4019.0	4051.6	4108.6	4168.8	4198.1	4188.3	4126.5	4061.3	4027.1
10°	3778.0	3805.7	3856.1	3932.7	4053.2	4183.5	4292.6	4343.0	4304.0	4232.3	4185.1
12.5°	3423.0	3450.7	3550.0	3716.1	3918.0	4144.4	4352.8	4488.0	4497.7	4426.1	4370.7
15°	3024.0	3051.7	3157.5	3366.0	3673.8	4036.9	4385.4	4641.0	4727.4	4665.5	4598.7
17.5°	2776.5	2800.9	2880.7	3048.4	3369.2	3821.9	4374.0	4803.9	5000.9	4952.1	4872.3
20°	2701.6	2722.7	2760.2	2877.5	3144.5	3598.8	4299.1	4957.0	5295.7	5268.0	5178.4
22.5°	2781.4	2800.9	2812.3	2864.4	3032.2	3452.3	4204.6	5113.3	5637.7	5640.9	5531.8
25°	2965.4	2984.9	2971.9	3004.5	3077.7	3406.7	4168.8	5297.3	6067.6	6103.4	5979.6
27.5°	3268.3	3269.9	3239.0	3237.3	3248.7	3475.1	4206.3	5494.4	6609.8	6676.6	6523.5
30°	3875.7	3851.3	3732.4	3603.7	3545.1	3680.3	4310.5	5727.2	7249.8	7368.7	7176.5
32.5°	4812.0	4776.2	4558.0	4250.2	3940.8	4010.8	4497.7	5992.7	7946.8	8161.7	7927.2
35°	5828.2	5818.4	5590.4	5132.8	4592.2	4481.5	4802.3	6341.1	8707.3	9049.2	8770.8
37.5°	6772.7	6767.8	6637.5	6098.5	5440.6	5137.7	5290.8	6797.1	9521.5	10016.5	9687.6
40°	7635.7	7650.4	7520.1	7038.1	6375.3	5979.6	5955.2	7360.5	10426.9	11070.1	10679.3
42.5°	8381.6	8397.9	8266.0	7909.3	7298.7	6911.1	6771.0	8051.0	11311.1	12201.9	11739.4
45°	8888.0	8989.0	8969.4	8684.5	8246.4	7844.2	7751.4	8917.3	12319.1	13402.0	12859.8
47.5°	9031.3	9124.1	9270.7	9309.8	9042.7	8647.0	8757.7	9961.2	13338.5	14603.8	13986.7
50°	8677.9	8764.3	9068.8	9474.3	9659.9	9537.8	9736.4	11079.9	14382.4	15802.4	15092.4
52.5°	7981.0	8068.9	8453.2	9094.8	9852.1	10236.4	10718.4	12182.3	15393.6	16937.4	16139.5
55°	6973.0	7065.8	7559.2	8285.5	9485.7	10524.6	11537.5	13283.2	16320.2	17958.4	17083.9
57.5°	5601.8	5670.2	6183.2	7199.3	8564.0	10238.0	12141.6	14485.0	17193.1	18961.5	18020.3
60°	3651.0	3711.2	4307.2	5440.6	7036.5	9280.5	12262.1	15825.2	18352.5	20265.9	19282.3
62.5°	2428.0	2468.7	2822.1	3654.2	4955.3	7442.0	11557.0	16895.1	20052.6	22536.0	21446.5
65°	1665.9	1706.6	2060.0	2639.7	3201.5	4922.8	9529.6	16753.4	21593.1	24338.6	23050.5
67.5°	1188.8	1223.0	1522.6	2069.7	2317.3	2859.5	6460.0	14942.6	21371.6	24407.0	23136.9
70°	851.7	871.2	1118.7	1612.2	1841.8	1718.0	3592.3	11428.4	18712.4	22537.6	21374.9
72.5°	596.0	602.5	776.8	1227.8	1483.5	1253.9	1709.9	7619.5	14152.8	17689.7	16571.0
75°	403.9	412.0	522.7	900.5	1190.4	957.5	905.4	4085.8	8308.3	9791.8	8777.3
77.5°	247.5	250.8	337.1	615.5	890.8	729.5	583.0	1731.0	3214.5	3155.9	2690.2
80°	140.0	140.0	215.0	382.7	607.4	470.6	408.7	736.1	1017.8	894.0	788.2
82.5°	78.2	79.8	156.3	237.8	402.2	278.5	224.7	340.3	439.7	389.2	338.7
85°	32.6	35.8	96.1	112.4	192.2	138.4	91.2	143.3	162.8	144.9	105.8
87.5°	3.3	4.9	29.3	21.2	22.8	27.7	13.0	27.7	22.8	22.8	16.3
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°	3747.0	3747.0	3747.0	3747.0	3747.0	3747.0	3747.0	3747.0	3747.0	3747.0	3747.0
2.5°	3771.5	3747.0	3685.2	3613.5	3519.1	3473.5	3411.6	3369.2	3333.4	3336.7	3304.1
5°	3844.7	3782.9	3644.4	3471.8	3256.9	3103.8	2941.0	2828.6	2737.4	2717.9	2673.9
7.5°	3945.7	3848.0	3605.4	3294.3	2931.2	2656.0	2410.1	2252.1	2139.8	2103.9	2068.1
10°	4076.0	3934.3	3554.9	3071.2	2548.5	2198.4	1934.6	1810.8	1734.3	1708.2	1688.7
12.5°	4227.4	4033.6	3488.1	2799.3	2154.4	1817.3	1649.6	1587.7	1563.3	1555.2	1550.3
15°	4418.0	4157.4	3387.2	2476.9	1820.6	1584.5	1512.8	1504.7	1507.9	1504.7	1503.0
17.5°	4644.3	4292.6	3222.7	2144.7	1595.9	1465.6	1439.5	1446.1	1454.2	1452.6	1449.3
20°	4891.8	4426.1	3012.6	1849.9	1442.8	1380.9	1366.3	1372.8	1379.3	1376.0	1374.4
22.5°	5173.5	4569.4	2779.7	1620.3	1340.2	1302.8	1286.5	1288.1	1288.1	1281.6	1278.3
25°	5510.6	4727.4	2535.5	1457.5	1262.0	1232.7	1213.2	1206.7	1196.9	1177.4	1174.1
27.5°	5912.9	4895.1	2301.0	1343.5	1200.2	1172.5	1149.7	1133.4	1109.0	1076.4	1073.1
30°	6365.6	5098.6	2102.3	1271.8	1151.3	1123.6	1097.6	1073.1	1037.3	996.6	993.3
32.5°	6898.1	5316.9	1957.4	1224.6	1107.3	1078.0	1047.1	1017.8	978.7	938.0	939.6
35°	7533.2	5580.7	1872.7	1192.0	1073.1	1034.1	999.9	967.3	938.0	902.2	898.9
37.5°	8222.0	5860.8	1846.6	1175.7	1050.3	990.1	951.0	928.2	925.0	903.8	902.2
40°	8976.0	6193.0	1866.2	1166.0	1025.9	947.8	905.4	900.5	908.7	871.2	872.8
42.5°	9773.9	6587.0	1898.8	1154.6	991.7	905.4	864.7	864.7	858.2	806.1	806.1
45°	10637.0	7041.4	1931.3	1126.9	951.0	863.1	832.1	820.7	793.0	742.6	740.9
47.5°	11506.5	7503.8	1955.8	1076.4	902.2	827.2	799.6	773.5	732.8	687.2	685.6
50°	12332.2	7919.1	1929.7	1001.5	846.8	793.0	763.7	727.9	683.9	653.0	648.1
52.5°	13069.8	8279.0	1819.0	913.6	788.2	757.2	731.2	693.7	657.9	625.3	622.1
55°	13711.5	8570.5	1623.6	830.5	736.1	726.3	700.2	653.0	604.2	576.5	573.2
57.5°	14327.0	8791.9	1379.3	762.1	688.8	692.1	653.0	610.7	565.1	535.8	532.5
60°	15146.1	9088.3	1131.8	698.6	638.3	648.1	605.8	574.8	517.8	480.4	475.5
62.5°	16455.4	9549.2	898.9	620.4	579.7	583.0	565.1	527.6	459.2	415.3	412.0
65°	17494.3	9379.8	708.4	535.8	513.0	517.8	517.8	477.1	403.9	353.4	348.5
67.5°	17377.1	8031.5	565.1	452.7	449.4	452.7	464.1	429.9	358.3	317.5	311.0
70°	16007.6	6388.4	452.7	376.2	390.8	382.7	415.3	392.5	322.4	281.7	276.8
72.5°	13061.7	4602.0	345.2	311.0	299.6	312.7	374.5	353.4	268.7	223.1	218.2
75°	7632.5	2455.7	257.3	245.9	216.6	260.6	332.2	301.3	205.2	164.5	159.6
77.5°	2485.0	856.6	188.9	180.8	161.2	210.1	283.3	254.0	167.7	130.3	125.4
80°	666.0	258.9	128.6	118.9	104.2	156.3	224.7	201.9	120.5	84.7	83.1
82.5°	267.1	109.1	74.9	66.8	57.0	107.5	177.5	162.8	89.6	53.7	53.7
85°	86.3	35.8	27.7	21.2	26.1	66.8	105.8	110.7	63.5	27.7	21.2
87.5°	11.4	4.9	4.9	6.5	4.9	11.4	32.6	30.9	17.9	3.3	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)