

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: P885446

Luminaire Tested: **NAV-SB6D-727-U-T2-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885446
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-SB6D-727-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 900mA 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: 40874 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

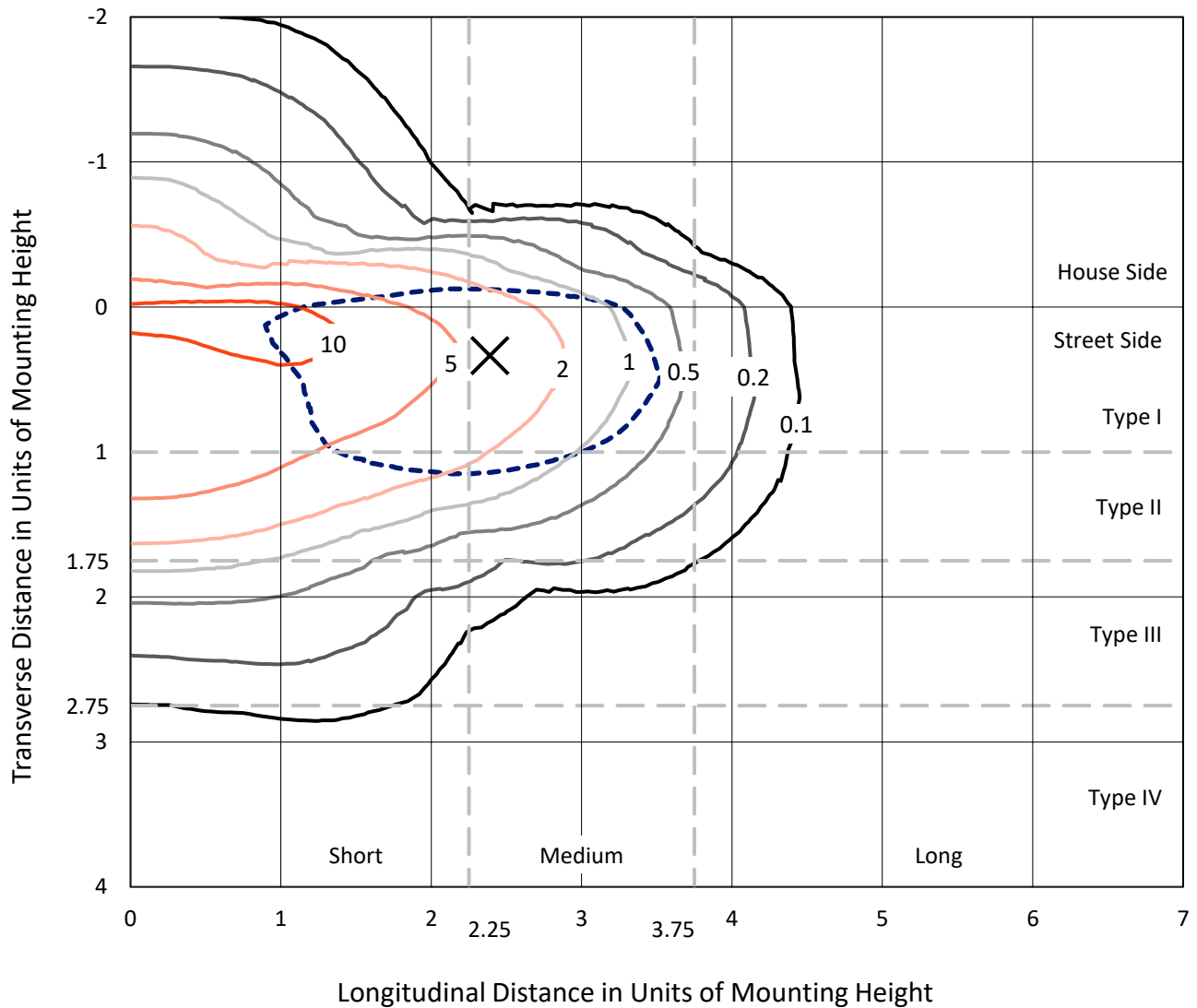
Input Watts (W): 440.1
Input Voltage (V): 120.0
Input Current (Ain): 3.68
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

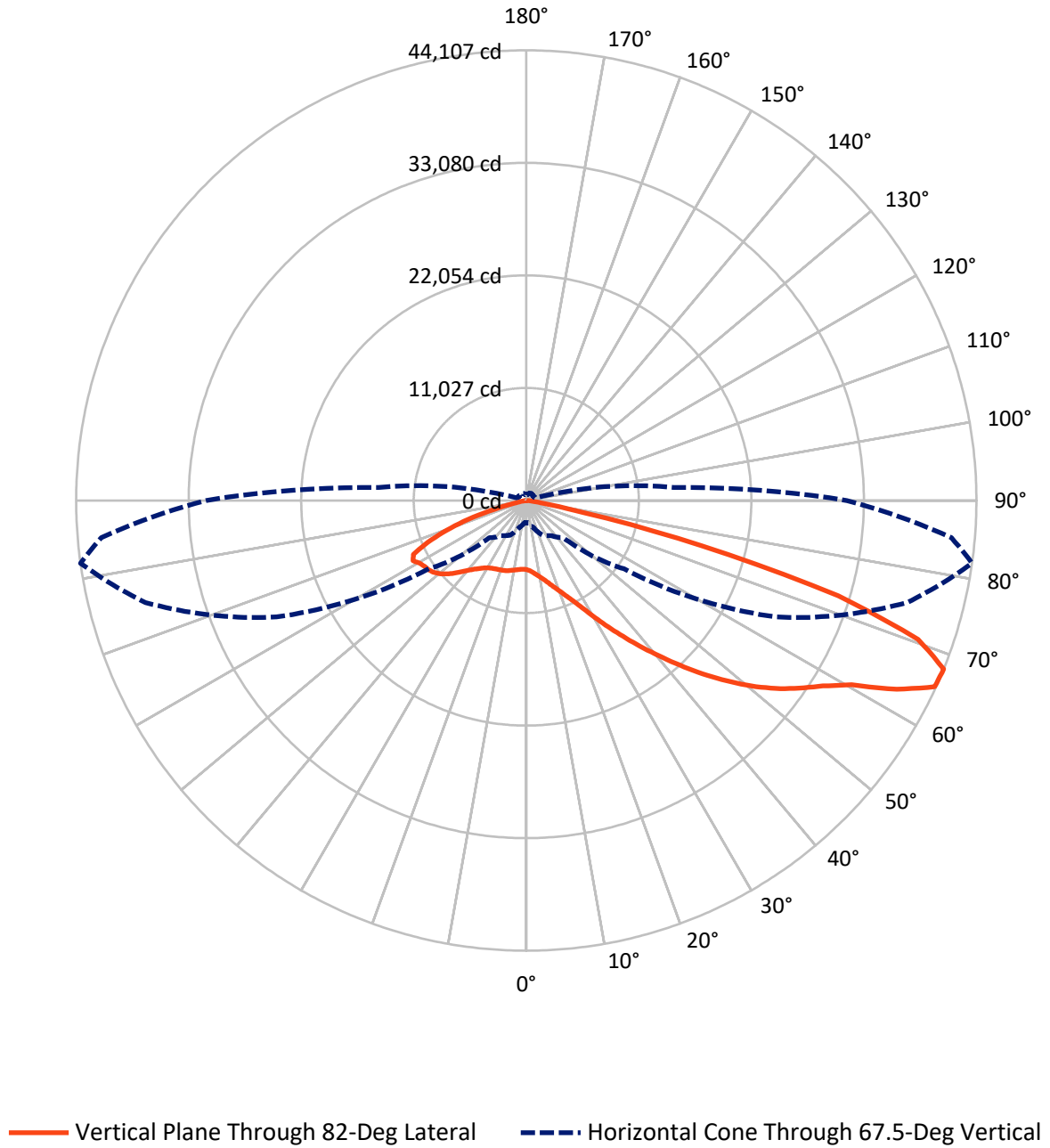
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 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	7404.0	0.0	7404.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	33470.0	0.0	33470.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	40874.0	0.0	40874.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	603.3	1.5
10°-20°	1567.7	3.8
20°-30°	2510.9	6.1
30°-40°	4440.1	10.9
40°-50°	7779.5	19.0
50°-60°	10375.7	25.4
60°-70°	9659.2	23.6
70°-80°	3707.2	9.1
80°-90°	230.3	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°	40874.0	100.0
0°-180°	40874.0	100.0

Coefficient of Utilization



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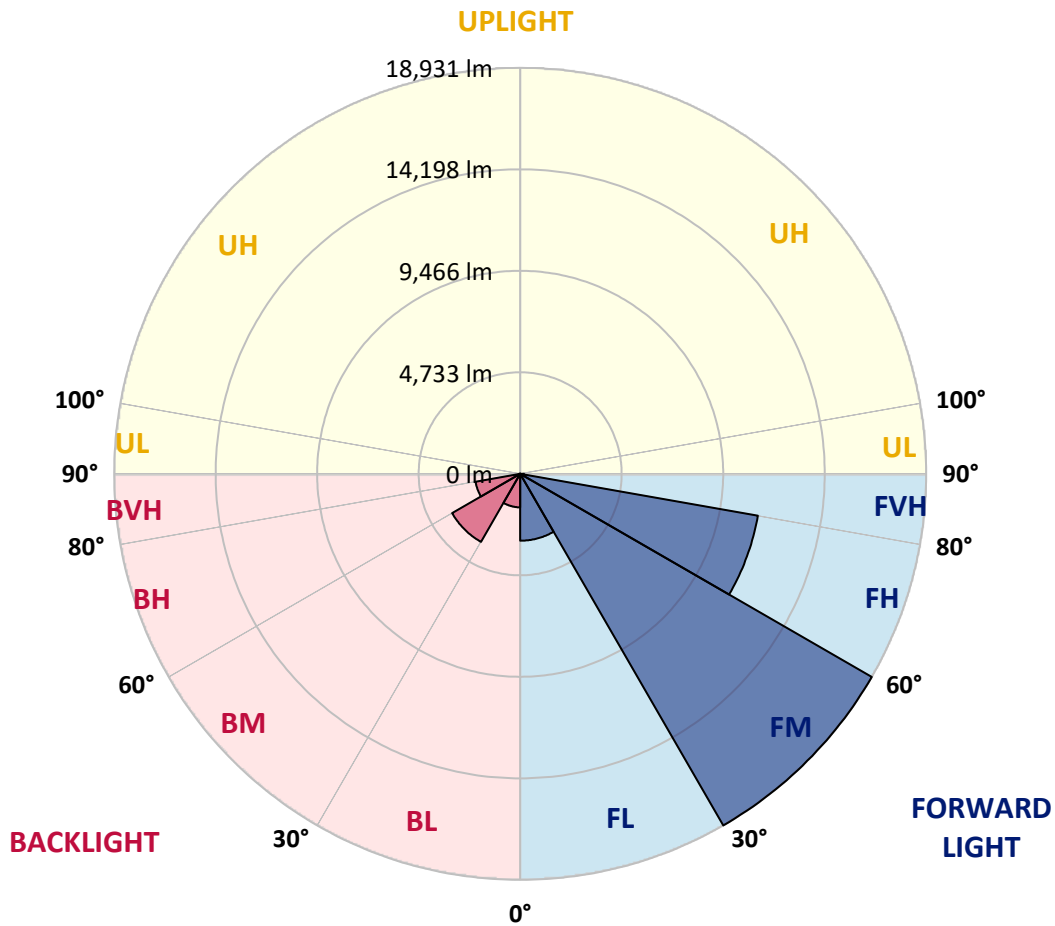
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3118.2	7.6			
FM (30°-60°)	18931.2	46.3			
FH (60°-80°)	11253.2	27.5			G4/12000
FVH (80°-90°)	167.4	0.4			G2/225
BL (0°-30°)	1563.7	3.8	B3/2500		
BM (30°-60°)	3664.2	9.0	B3/5000		
BH (60°-80°)	2113.2	5.2	B3/2500		G3/2500
BVH (80°-90°)	62.9	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-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	6771.4	6771.4	6771.4	6771.4	6771.4	6771.4	6771.4	6771.4	6771.4	6771.4	6771.4
2.5°	7156.9	7198.1	7174.6	7162.8	7142.2	7112.8	7089.3	7015.7	6939.2	6889.2	6871.5
5°	7301.1	7342.3	7339.4	7351.2	7365.9	7374.7	7368.8	7286.4	7177.5	7092.2	7042.2
7.5°	7177.5	7224.6	7262.9	7321.7	7424.7	7533.6	7586.6	7568.9	7457.1	7339.4	7277.6
10°	6827.4	6877.4	6968.6	7106.9	7324.7	7560.1	7757.3	7848.5	7777.9	7648.4	7563.1
12.5°	6185.8	6235.8	6415.4	6715.5	7080.4	7489.5	7866.2	8110.4	8128.1	7998.6	7898.5
15°	5464.8	5514.9	5706.1	6082.8	6639.0	7295.3	7925.0	8387.0	8543.0	8431.2	8310.5
17.5°	5017.5	5061.7	5205.9	5509.0	6088.7	6906.8	7904.4	8681.3	9037.4	8949.1	8804.9
20°	4882.1	4920.4	4988.1	5200.0	5682.6	6503.6	7769.1	8958.0	9570.1	9520.0	9358.2
22.5°	5026.3	5061.7	5082.3	5176.4	5479.5	6238.8	7598.4	9240.5	10188.1	10193.9	9996.8
25°	5358.9	5394.2	5370.7	5429.5	5561.9	6156.4	7533.6	9573.0	10965.0	11029.7	10806.1
27.5°	5906.2	5909.2	5853.3	5850.3	5870.9	6280.0	7601.3	9929.1	11944.9	12065.6	11789.0
30°	7003.9	6959.8	6745.0	6512.5	6406.5	6650.8	7789.7	10349.9	13101.5	13316.3	12969.0
32.5°	8696.0	8631.3	8237.0	7680.8	7121.6	7248.2	8128.1	10829.6	14361.0	14749.4	14325.7
35°	10532.4	10514.7	10102.7	9275.8	8298.8	8098.7	8678.4	11459.4	15735.3	16353.3	15850.1
37.5°	12239.2	12230.4	11995.0	11020.9	9832.0	9284.6	9561.2	12283.3	17206.7	18101.3	17506.9
40°	13798.9	13825.4	13590.0	12718.9	11521.2	10806.1	10761.9	13301.6	18842.9	20005.3	19299.0
42.5°	15146.7	15176.1	14937.8	14293.3	13189.7	12489.3	12236.3	14549.3	20440.9	22050.6	21214.8
45°	16061.9	16244.4	16209.1	15694.1	14902.5	14175.6	14007.8	16114.9	22262.5	24219.4	23239.5
47.5°	16320.9	16488.6	16753.5	16824.1	16341.5	15626.4	15826.5	18001.3	24104.7	26391.2	25275.9
50°	15682.3	15838.3	16388.6	17121.4	17456.8	17236.1	17595.1	20023.0	25991.0	28557.2	27274.1
52.5°	14422.8	14581.7	15276.2	16435.7	17804.1	18498.6	19369.7	22015.3	27818.5	30608.3	29166.3
55°	12601.2	12768.9	13660.6	14973.1	17142.0	19019.5	20849.9	24004.6	29493.0	32453.5	30873.2
57.5°	10123.3	10246.9	11173.9	13010.2	15476.3	18501.5	21941.7	26176.4	31070.3	34266.2	32565.3
60°	6597.8	6706.7	7783.8	9832.0	12715.9	16771.2	22159.5	28598.4	33165.6	36623.4	34846.0
62.5°	4387.8	4461.3	5099.9	6603.7	8955.0	13448.7	20885.2	30531.8	36237.9	40725.7	38757.0
65°	3010.5	3084.1	3722.7	4770.3	5785.6	8896.2	17221.4	30275.8	39021.8	43983.5	41655.7
67.5°	2148.3	2210.1	2751.5	3740.3	4187.6	5167.6	11674.2	27003.4	38621.6	44107.0	41811.6
70°	1539.1	1574.4	2021.7	2913.4	3328.3	3104.7	6491.9	20652.7	33816.0	40728.7	38627.5
72.5°	1077.1	1088.8	1403.7	2218.9	2680.9	2266.0	3090.0	13769.5	25576.1	31967.9	29946.2
75°	729.8	744.5	944.6	1627.4	2151.2	1730.4	1636.2	7383.5	15014.3	17695.2	15861.8
77.5°	447.3	453.2	609.2	1112.4	1609.7	1318.4	1053.5	3128.2	5809.1	5703.2	4861.5
80°	253.1	253.1	388.5	691.6	1097.7	850.5	738.6	1330.2	1839.3	1615.6	1424.3
82.5°	141.3	144.2	282.5	429.7	726.9	503.2	406.1	615.1	794.6	703.3	612.1
85°	58.9	64.7	173.6	203.1	347.3	250.1	164.8	259.0	294.3	261.9	191.3
87.5°	5.9	8.8	53.0	38.3	41.2	50.0	23.5	50.0	41.2	41.2	29.4
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°	6771.4	6771.4	6771.4	6771.4	6771.4	6771.4	6771.4	6771.4	6771.4	6771.4	6771.4
2.5°	6815.6	6771.4	6659.6	6530.1	6359.4	6277.0	6165.2	6088.7	6024.0	6029.8	5971.0
5°	6948.0	6836.2	6586.0	6274.1	5885.6	5609.0	5314.7	5111.7	4946.9	4911.6	4832.1
7.5°	7130.5	6953.9	6515.4	5953.3	5297.1	4799.7	4355.4	4069.9	3866.9	3802.1	3737.4
10°	7365.9	7109.9	6424.2	5550.2	4605.5	3972.8	3496.1	3272.4	3134.1	3087.0	3051.7
12.5°	7639.6	7289.4	6303.5	5058.7	3893.4	3284.2	2981.1	2869.3	2825.1	2810.4	2801.6
15°	7983.9	7513.0	6121.1	4476.0	3290.1	2863.4	2733.9	2719.2	2725.1	2719.2	2716.2
17.5°	8392.9	7757.3	5823.8	3875.7	2884.0	2648.5	2601.5	2613.2	2627.9	2625.0	2619.1
20°	8840.2	7998.6	5444.2	3343.0	2607.3	2495.5	2469.0	2480.8	2492.6	2486.7	2483.7
22.5°	9349.4	8257.6	5023.4	2928.1	2421.9	2354.3	2324.8	2327.8	2327.8	2316.0	2310.1
25°	9958.5	8543.0	4582.0	2633.8	2280.7	2227.7	2192.4	2180.6	2163.0	2127.7	2121.8
27.5°	10685.4	8846.1	4158.2	2427.8	2168.9	2118.8	2077.6	2048.2	2004.1	1945.2	1939.3
30°	11503.5	9214.0	3799.2	2298.3	2080.6	2030.5	1983.5	1939.3	1874.6	1801.0	1795.1
32.5°	12465.8	9608.3	3537.3	2213.0	2001.1	1948.1	1892.2	1839.3	1768.6	1695.1	1698.0
35°	13613.5	10085.1	3384.2	2154.1	1939.3	1868.7	1806.9	1748.0	1695.1	1630.3	1624.4
37.5°	14858.3	10591.2	3337.2	2124.7	1898.1	1789.2	1718.6	1677.4	1671.5	1633.3	1630.3
40°	16220.8	11191.6	3372.5	2107.1	1854.0	1712.7	1636.2	1627.4	1642.1	1574.4	1577.4
42.5°	17662.8	11903.7	3431.3	2086.5	1792.2	1636.2	1562.6	1562.6	1550.9	1456.7	1456.7
45°	19222.5	12724.8	3490.2	2036.4	1718.6	1559.7	1503.8	1483.2	1433.2	1341.9	1339.0
47.5°	20794.0	13560.5	3534.3	1945.2	1630.3	1495.0	1444.9	1397.8	1324.3	1241.9	1238.9
50°	22286.0	14311.0	3487.2	1809.8	1530.3	1433.2	1380.2	1315.4	1236.0	1180.1	1171.2
52.5°	23619.1	14961.3	3287.1	1650.9	1424.3	1368.4	1321.3	1253.6	1188.9	1130.0	1124.2
55°	24778.6	15488.1	2934.0	1500.8	1330.2	1312.5	1265.4	1180.1	1091.8	1041.8	1035.9
57.5°	25891.0	15888.3	2492.6	1377.2	1244.8	1250.7	1180.1	1103.6	1021.2	968.2	962.3
60°	27371.2	16423.9	2045.3	1262.5	1153.6	1171.2	1094.7	1038.8	935.8	868.1	859.3
62.5°	29737.2	17256.7	1624.4	1121.2	1047.6	1053.5	1021.2	953.5	829.9	750.4	744.5
65°	31614.8	16950.7	1280.1	968.2	927.0	935.8	935.8	862.2	729.8	638.6	629.8
67.5°	31402.9	14514.0	1021.2	818.1	812.2	818.1	838.7	776.9	647.4	573.9	562.1
70°	28928.0	11544.7	818.1	679.8	706.3	691.6	750.4	709.2	582.7	509.1	500.3
72.5°	23604.4	8316.4	623.9	562.1	541.5	565.0	676.8	638.6	485.6	403.2	394.3
75°	13793.0	4437.8	465.0	444.4	391.4	470.9	600.3	544.4	370.8	297.2	288.4
77.5°	4490.7	1547.9	341.4	326.7	291.3	379.6	512.1	459.1	303.1	235.4	226.6
80°	1203.6	467.9	232.5	214.8	188.3	282.5	406.1	364.9	217.8	153.0	150.1
82.5°	482.6	197.2	135.4	120.7	103.0	194.2	320.8	294.3	161.9	97.1	97.1
85°	156.0	64.7	50.0	38.3	47.1	120.7	191.3	200.1	114.8	50.0	38.3
87.5°	20.6	8.8	8.8	11.8	8.8	20.6	58.9	55.9	32.4	5.9	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)