

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: P965094

Luminaire Tested: **NAV-SB3D-735-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965094
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3D-735-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

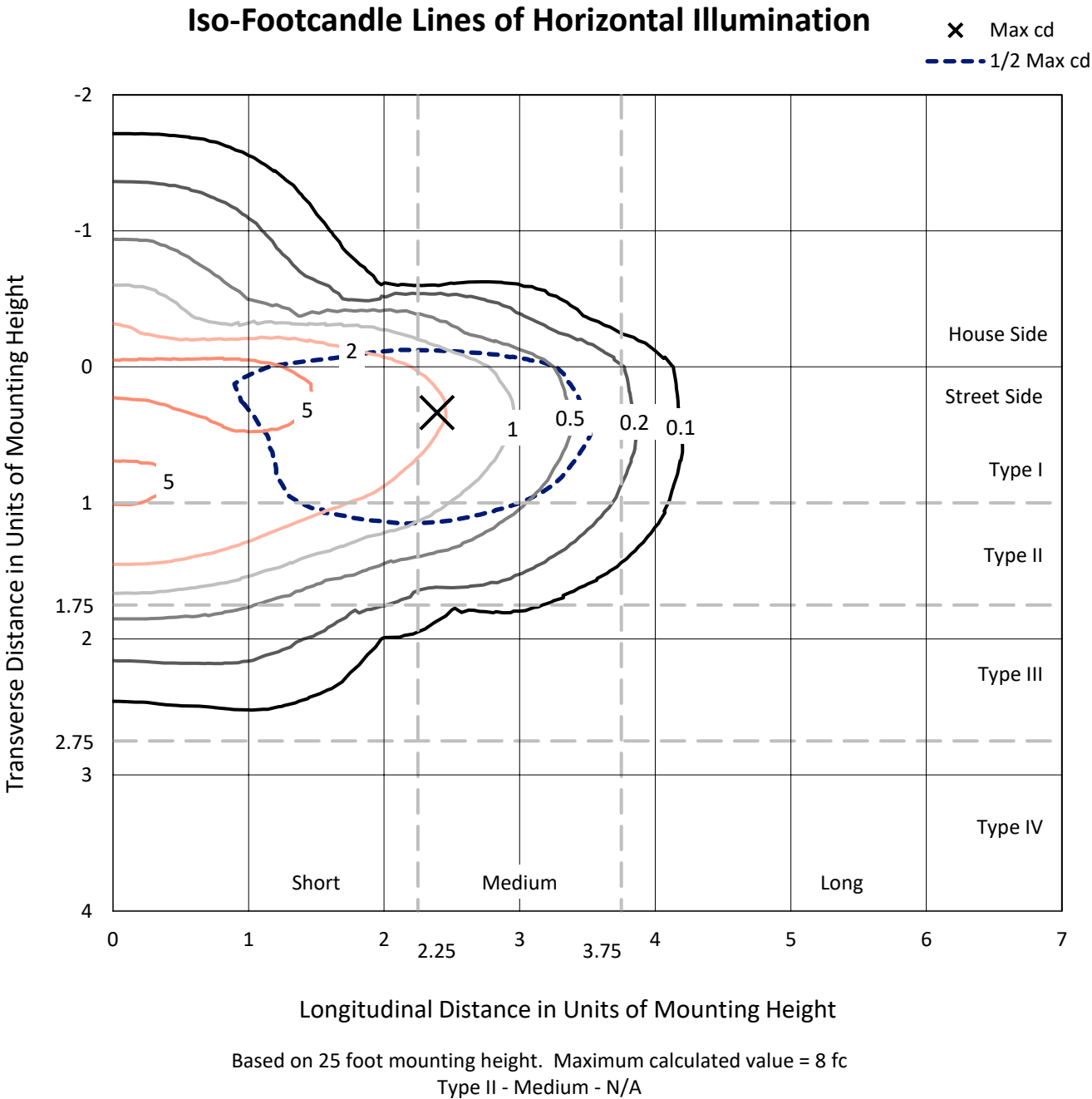
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22852.4 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



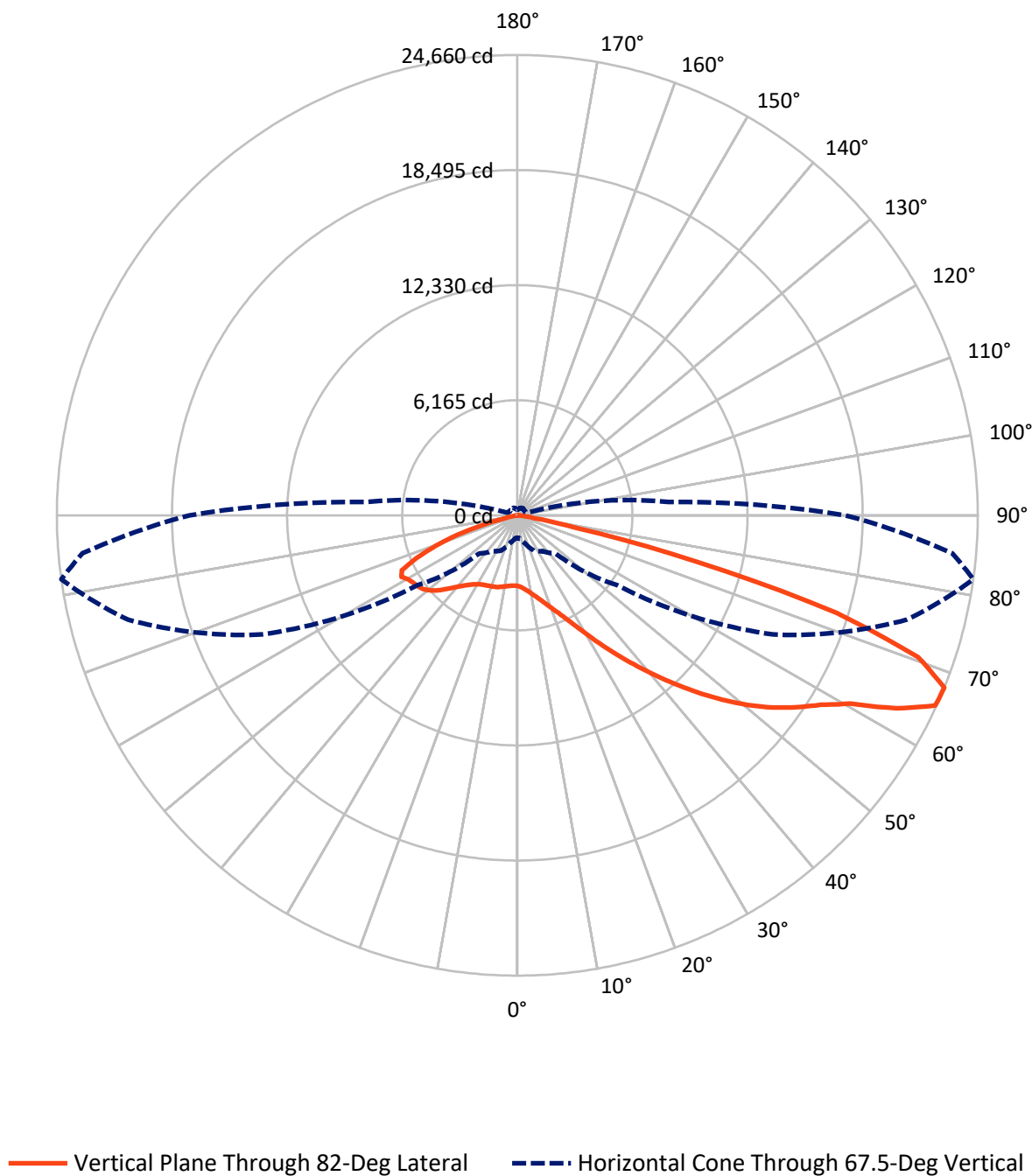
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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4139.5	0.0	4139.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	18712.9	0.0	18712.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	22852.4	0.0	22852.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.3	1.5
10°-20°	876.5	3.8
20°-30°	1403.9	6.1
30°-40°	2482.4	10.9
40°-50°	4349.5	19.0
50°-60°	5801.0	25.4
60°-70°	5400.4	23.6
70°-80°	2072.7	9.1
80°-90°	128.7	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°	22852.4	100.0
0°-180°	22852.4	100.0

Coefficient of Utilization



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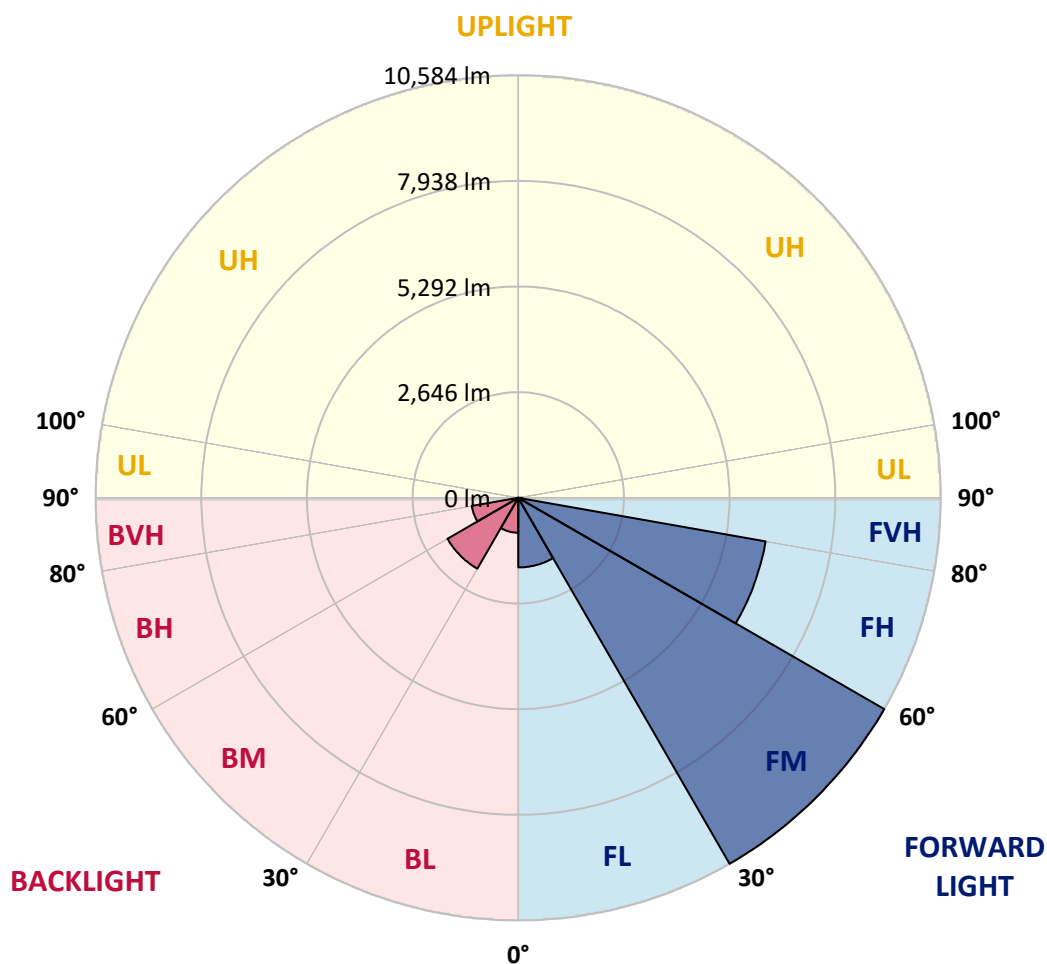
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1743.4	7.6			
FM	(30°-60°)	10584.3	46.3			
FH	(60°-80°)	6291.6	27.5			G3/7500
FVH	(80°-90°)	93.6	0.4			G1/100
BL	(0°-30°)	874.3	3.8	B2/1000		
BM	(30°-60°)	2048.6	9.0	B2/2500		
BH	(60°-80°)	1181.5	5.2	B3/2500		G3/2500
BVH	(80°-90°)	35.1	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°	3785.8	3785.8	3785.8	3785.8	3785.8	3785.8	3785.8	3785.8	3785.8	3785.8	3785.8
2.5°	4001.4	4024.5	4011.2	4004.7	3993.2	3976.7	3963.6	3922.5	3879.6	3851.6	3841.8
5°	4082.1	4105.0	4103.4	4109.9	4118.2	4123.2	4119.9	4073.8	4012.9	3965.2	3937.2
7.5°	4012.9	4039.2	4060.6	4093.5	4151.1	4212.0	4241.7	4231.7	4169.2	4103.4	4068.8
10°	3817.1	3845.1	3896.1	3973.4	4095.2	4226.8	4337.1	4388.0	4348.6	4276.2	4228.4
12.5°	3458.5	3486.4	3586.8	3754.6	3958.7	4187.3	4398.0	4534.5	4544.3	4472.0	4416.0
15°	3055.3	3083.3	3190.3	3400.8	3711.8	4078.7	4430.9	4689.2	4776.3	4713.9	4646.3
17.5°	2805.2	2829.9	2910.6	3080.0	3404.1	3861.6	4419.3	4853.7	5052.7	5003.4	4922.8
20°	2729.6	2751.0	2788.8	2907.3	3177.1	3636.2	4343.6	5008.4	5350.6	5322.6	5232.1
22.5°	2810.2	2829.9	2841.5	2894.1	3063.6	3488.1	4248.2	5166.3	5696.0	5699.4	5589.1
25°	2996.1	3015.9	3002.7	3035.6	3109.6	3442.0	4212.0	5352.2	6130.4	6166.6	6041.6
27.5°	3302.1	3303.8	3272.5	3270.9	3282.4	3511.1	4249.9	5551.3	6678.3	6745.8	6591.2
30°	3915.8	3891.2	3771.1	3641.1	3581.9	3718.4	4355.1	5786.5	7325.0	7445.1	7250.8
32.5°	4861.9	4825.7	4605.2	4294.2	3981.6	4052.4	4544.3	6054.8	8029.1	8246.3	8009.4
35°	5888.6	5878.7	5648.4	5186.0	4639.8	4527.9	4852.0	6406.9	8797.5	9143.0	8861.6
37.5°	6842.9	6837.9	6706.3	6161.7	5497.0	5191.0	5345.6	6867.5	9620.1	10120.3	9787.9
40°	7714.9	7729.7	7598.0	7111.0	6441.4	6041.6	6017.0	7436.8	10534.9	11184.8	10790.0
42.5°	8468.4	8484.8	8351.6	7991.3	7374.3	6982.7	6841.3	8134.4	11428.3	12328.3	11861.1
45°	8980.1	9082.1	9062.4	8774.4	8331.8	7925.5	7831.7	9009.8	12446.8	13541.0	12993.0
47.5°	9124.9	9218.6	9366.8	9406.2	9136.4	8736.6	8848.5	10064.4	13476.8	14755.2	14131.6
50°	8767.8	8855.1	9162.8	9572.5	9759.9	9636.6	9837.3	11194.7	14531.4	15966.1	15248.7
52.5°	8063.7	8152.5	8540.8	9189.0	9954.2	10342.5	10829.4	12308.6	15553.1	17112.9	16306.7
55°	7045.2	7139.0	7637.6	8371.4	9584.0	10633.7	11657.0	13420.8	16489.3	18144.6	17261.0
57.5°	5659.8	5728.9	6247.3	7273.9	8652.7	10344.1	12267.4	14635.1	17371.2	19158.1	18207.1
60°	3688.8	3749.7	4351.8	5497.0	7109.4	9376.6	12389.2	15989.2	18542.7	20475.9	19482.2
62.5°	2453.1	2494.3	2851.3	3692.0	5006.7	7519.1	11676.8	17070.1	20260.4	22769.5	21668.8
65°	1683.2	1724.3	2081.4	2667.0	3234.7	4973.8	9628.3	16927.0	21816.8	24590.9	23289.4
67.5°	1201.1	1235.6	1538.3	2091.2	2341.3	2889.2	6527.0	15097.4	21593.1	24660.0	23376.6
70°	860.5	880.3	1130.4	1628.8	1860.9	1735.8	3629.5	11546.8	18906.3	22771.1	21596.3
72.5°	602.2	608.7	784.8	1240.6	1498.9	1266.9	1727.5	7698.5	14299.4	17873.0	16742.7
75°	408.1	416.3	528.2	909.9	1202.7	967.4	914.8	4128.1	8394.3	9893.3	8868.2
77.5°	250.1	253.4	340.6	622.0	900.0	737.1	589.1	1749.0	3247.8	3188.6	2718.1
80°	141.4	141.4	217.2	386.6	613.7	475.5	413.0	743.6	1028.3	903.2	796.3
82.5°	78.9	80.7	158.0	240.3	406.4	281.4	227.0	343.9	444.2	393.2	342.2
85°	32.9	36.2	97.1	113.6	194.1	139.8	92.1	144.8	164.5	146.5	106.9
87.5°	3.3	4.9	29.6	21.4	23.1	28.0	13.1	28.0	23.1	23.1	16.5
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°	3785.8	3785.8	3785.8	3785.8	3785.8	3785.8	3785.8	3785.8	3785.8	3785.8	3785.8
2.5°	3810.5	3785.8	3723.3	3650.9	3555.5	3509.5	3447.0	3404.1	3367.9	3371.2	3338.3
5°	3884.5	3822.0	3682.2	3507.9	3290.7	3136.0	2971.5	2857.9	2765.8	2746.1	2701.6
7.5°	3986.6	3887.8	3642.7	3328.5	2961.5	2683.6	2435.1	2275.5	2161.9	2125.7	2089.6
10°	4118.2	3975.1	3591.7	3103.1	2574.9	2221.2	1954.7	1829.6	1752.2	1725.9	1706.2
12.5°	4271.3	4075.4	3524.3	2828.3	2176.8	1836.2	1666.8	1604.2	1579.5	1571.3	1566.3
15°	4463.8	4200.4	3422.3	2502.5	1839.5	1600.8	1528.5	1520.3	1523.6	1520.3	1518.6
17.5°	4692.4	4337.1	3256.1	2166.8	1612.4	1480.8	1454.5	1461.0	1469.2	1467.6	1464.3
20°	4942.5	4472.0	3043.8	1869.1	1457.8	1395.2	1380.4	1387.0	1393.6	1390.3	1388.7
22.5°	5227.2	4616.7	2808.5	1637.1	1354.1	1316.2	1299.8	1301.4	1301.4	1294.9	1291.6
25°	5567.7	4776.3	2561.8	1472.5	1275.1	1245.5	1225.8	1219.1	1209.3	1189.5	1186.2
27.5°	5974.1	4945.8	2324.8	1357.4	1212.6	1184.6	1161.6	1145.1	1120.4	1087.5	1084.2
30°	6431.6	5151.4	2124.1	1284.9	1163.3	1135.3	1108.9	1084.2	1048.1	1007.0	1003.7
32.5°	6969.6	5371.9	1977.6	1237.3	1118.8	1089.2	1057.9	1028.3	988.8	947.7	949.4
35°	7611.2	5638.5	1892.2	1204.4	1084.2	1044.8	1010.2	977.3	947.7	911.5	908.3
37.5°	8307.2	5921.5	1865.8	1187.9	1061.2	1000.4	960.8	937.9	934.5	913.2	911.5
40°	9069.0	6257.1	1885.5	1178.0	1036.6	957.6	914.8	909.9	918.1	880.3	881.9
42.5°	9875.2	6655.3	1918.4	1166.6	1002.0	914.8	873.7	873.7	867.0	814.5	814.5
45°	10747.2	7114.3	1951.3	1138.6	960.8	872.0	840.7	829.2	801.2	750.3	748.7
47.5°	11625.8	7581.6	1976.0	1087.5	911.5	835.8	807.8	781.6	740.4	694.3	692.7
50°	12460.0	8001.2	1949.7	1011.9	855.6	801.2	771.6	735.4	691.1	659.8	654.9
52.5°	13205.3	8364.8	1837.8	923.0	796.3	765.1	738.7	700.9	664.7	631.8	628.5
55°	13853.5	8659.3	1640.4	839.1	743.6	733.8	707.5	659.8	610.4	582.4	579.1
57.5°	14475.5	8883.1	1393.6	770.0	696.0	699.3	659.8	616.9	570.9	541.3	538.0
60°	15303.0	9182.5	1143.5	705.8	644.9	654.9	612.0	580.8	523.2	485.3	480.4
62.5°	16625.9	9648.1	908.3	626.9	585.7	589.1	570.9	533.1	464.0	419.5	416.3
65°	17675.6	9477.0	715.8	541.3	518.2	523.2	523.2	482.1	408.1	357.0	352.1
67.5°	17557.1	8114.7	570.9	457.4	454.1	457.4	468.9	434.4	361.9	320.8	314.3
70°	16173.5	6454.5	457.4	380.1	394.8	386.6	419.5	396.5	325.7	284.6	279.7
72.5°	13197.1	4649.6	348.8	314.3	302.8	315.9	378.4	357.0	271.5	225.4	220.5
75°	7711.6	2481.1	259.9	248.5	218.8	263.2	335.7	304.4	207.4	166.2	161.2
77.5°	2510.7	865.4	190.9	182.7	162.9	212.3	286.3	256.7	169.4	131.6	126.7
80°	672.9	261.6	130.0	120.1	105.3	158.0	227.0	204.0	121.8	85.6	83.9
82.5°	269.9	110.2	75.6	67.4	57.6	108.5	179.4	164.5	90.5	54.3	54.3
85°	87.2	36.2	28.0	21.4	26.3	67.4	106.9	111.9	64.2	28.0	21.4
87.5°	11.5	4.9	4.9	6.6	4.9	11.5	32.9	31.3	18.1	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)