

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: P971436

Luminaire Tested: **NAV-SB6D-740-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971436
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-740-U-AFL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 68056.9 lumens
Efficiency: N/A
Efficacy: 154.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 440.1
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

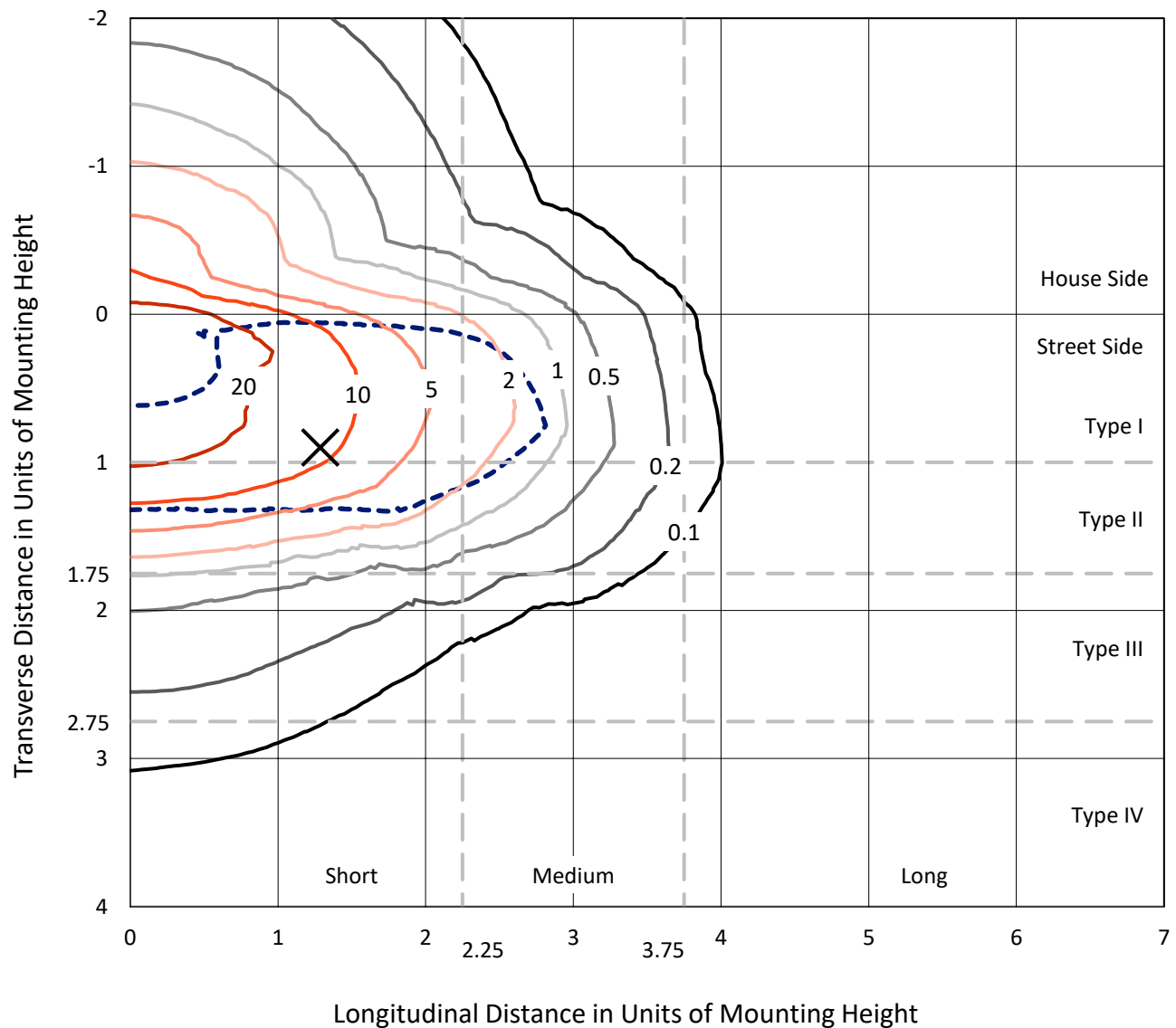


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Iso-Footcandle Lines of Horizontal Illumination

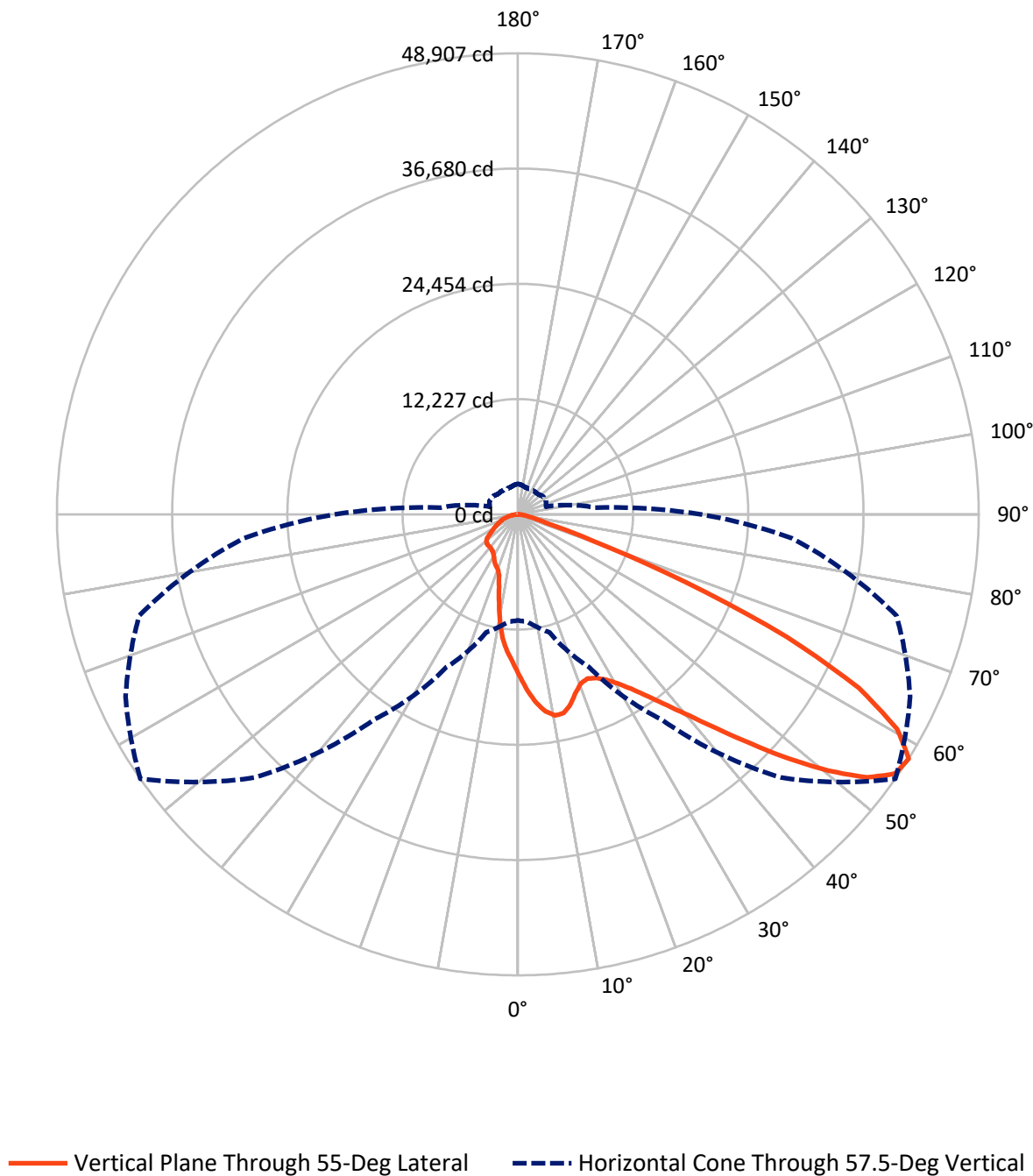
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 33 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12314.6	0.0	12314.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	55742.4	0.0	55742.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	68056.9	0.0	68056.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1582.4	2.3
10°-20°	3994.1	5.9
20°-30°	6373.4	9.4
30°-40°	10090.6	14.8
40°-50°	15444.8	22.7
50°-60°	16542.8	24.3
60°-70°	10407.1	15.3
70°-80°	3077.6	4.5
80°-90°	544.1	0.8
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°	68056.9	100.0
0°-180°	68056.9	100.0

Coefficient of Utilization



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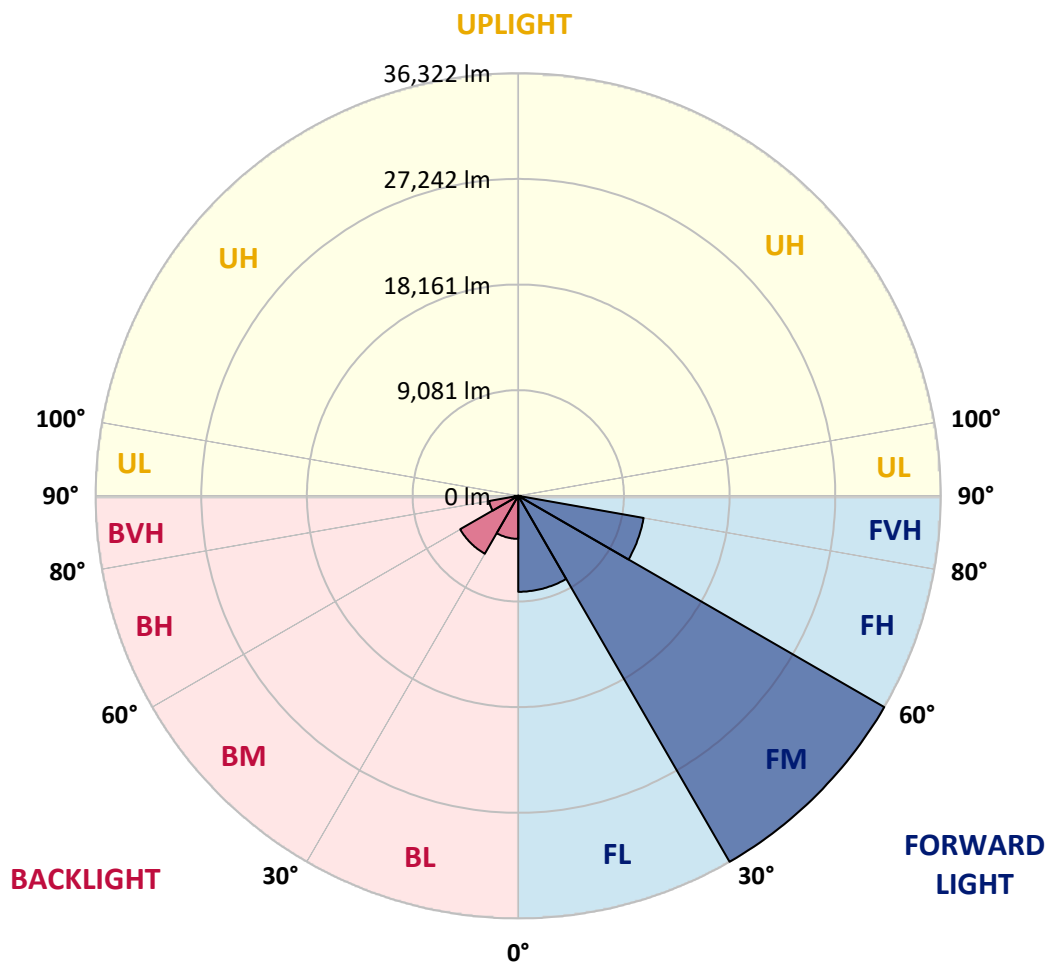
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	8248.5	12.1			
FM	(30°-60°)	36322.5	53.4			
FH	(60°-80°)	10941.5	16.1			G4/12000
FVH	(80°-90°)	229.9	0.3			G3/500
BL	(0°-30°)	3701.3	5.4	B4/5000		
BM	(30°-60°)	5755.7	8.5	B4/8500		
BH	(60°-80°)	2543.3	3.7	B4/5000		G4/5000
BVH	(80°-90°)	314.2	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	17052.8	17052.8	17052.8	17052.8	17052.8	17052.8	17052.8	17052.8	17052.8	17052.8	17052.8
2.5°	19564.9	19550.8	19628.2	19364.3	19184.9	18942.1	18622.0	18213.8	17774.1	17309.7	17109.2
5°	21327.5	21204.4	21285.3	21088.2	20891.2	20525.3	20050.4	19385.4	18572.7	17647.4	17154.9
7.5°	21049.6	20965.1	21172.7	21348.6	21496.4	21450.7	21102.3	20405.7	19357.3	18013.4	17299.1
10°	18808.4	18713.4	19005.4	19614.1	20507.8	21285.3	21707.4	21274.7	20159.5	18414.4	17439.9
12.5°	16831.2	16785.5	16979.0	17471.5	18463.6	19955.4	21630.1	22034.6	20993.2	18889.4	17629.8
15°	15986.8	15930.6	16053.7	16303.4	16936.8	18326.5	20926.4	22555.3	21813.0	19438.2	17932.4
17.5°	15800.4	15737.0	15789.8	15920.0	16328.1	17387.1	19863.9	22812.2	22668.0	20050.4	18185.8
20°	16145.2	16092.4	16099.4	16092.4	16377.3	17218.3	19125.1	22713.7	23413.8	20613.3	18432.0
22.5°	16979.0	16891.0	16894.6	16708.1	16862.9	17513.8	18931.5	22449.9	24078.8	21105.9	18618.5
25°	18337.0	18178.7	18210.4	17735.4	17693.1	18175.2	19234.1	22245.8	24740.2	21499.9	18653.7
27.5°	20194.7	20015.2	19920.3	19213.0	18875.3	19114.5	19849.8	22316.1	25366.4	21841.2	18565.7
30°	22516.7	22298.6	22105.0	21102.3	20490.2	20402.2	20806.8	22780.5	26105.2	22200.1	18414.4
32.5°	25362.9	25109.6	24757.7	23427.9	22565.9	22105.0	22045.2	23607.3	26970.7	22657.4	18337.0
35°	28750.9	28420.3	27920.7	26200.2	25109.6	24166.7	23677.7	24800.0	28156.3	23346.9	18425.0
37.5°	32241.1	31868.1	31410.7	29363.2	28022.7	26633.0	25669.0	26418.4	29736.1	24282.9	18657.2
40°	35460.2	35041.6	34615.9	32793.4	31354.4	29679.8	28107.1	28466.0	31667.6	25401.7	19051.2
42.5°	37360.1	37050.5	36888.6	35903.5	34791.8	33092.4	31139.8	30893.6	33838.3	26689.3	19501.5
45°	37275.7	37149.0	37648.6	38056.7	37792.8	36850.0	34693.3	33578.0	36016.1	27804.6	19916.7
47.5°	35284.3	35368.8	36484.1	38777.9	39787.6	40280.2	38739.3	36213.1	37908.9	28638.4	20103.1
50°	29866.2	29936.6	32518.9	37465.6	40301.4	43077.2	42753.6	38785.0	39376.0	29148.5	20061.0
52.5°	25577.5	25623.3	26731.5	33574.5	38605.5	44484.5	46370.3	41209.0	40449.1	29289.3	19825.2
55°	19265.8	19424.2	20666.0	26341.0	34193.7	43369.2	48572.7	43706.9	41128.1	29303.3	19578.9
57.5°	11254.8	11427.2	12961.1	17879.7	26576.7	39481.6	48907.0	45923.5	41589.0	29190.8	19431.1
60°	5513.1	5587.0	6255.4	9397.2	16387.9	31991.3	46219.0	46996.5	41845.8	29130.9	19424.2
62.5°	3715.2	3704.7	3732.8	4637.0	8074.3	20553.5	40618.0	45117.7	41708.6	28902.2	19353.7
65°	3194.5	3155.9	3050.3	3254.4	4183.1	9400.7	31382.6	39509.8	40663.7	28328.7	18871.8
67.5°	2761.8	2765.3	2768.8	2705.5	2987.0	4338.0	19177.9	31122.3	36913.2	25612.7	17014.2
70°	2286.9	2318.5	2332.6	2332.6	2434.6	2846.2	8186.9	21331.1	29116.9	20082.0	13703.5
72.5°	2082.8	2016.0	2022.9	1987.8	1987.8	2167.3	3296.6	12092.1	18344.0	11297.0	8362.9
75°	1699.3	1741.5	1748.5	1723.9	1643.0	1653.5	1956.1	5073.2	7849.1	4686.3	4133.9
77.5°	1467.1	1467.1	1481.1	1463.6	1400.3	1238.4	1305.2	1966.7	2670.3	1921.0	2065.2
80°	1178.6	1175.1	1234.9	1270.1	1171.6	914.7	833.8	1087.1	1185.6	844.4	1073.1
82.5°	573.5	608.6	847.9	967.5	890.1	661.4	510.1	675.5	633.2	372.9	482.0
85°	334.3	316.6	380.0	538.3	510.1	365.9	246.3	351.8	330.7	190.0	193.5
87.5°	105.6	98.5	77.4	183.0	147.8	102.0	66.8	102.0	91.4	42.2	42.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	17052.8	17052.8	17052.8	17052.8	17052.8	17052.8	17052.8	17052.8	17052.8	17052.8
2.5°	16859.3	16444.2	16032.5	15656.2	15427.5	15279.7	15131.9	14966.5	14903.2	14808.2
5°	16690.5	15888.3	15174.1	14558.4	13999.0	13559.2	13116.0	12757.0	12595.3	12704.4
7.5°	16592.0	15431.0	14329.7	13200.4	12113.2	11244.2	10487.8	9956.5	9717.3	9777.2
10°	16504.0	14913.7	13235.6	11451.8	9889.7	8813.2	8039.2	7634.5	7483.3	7514.9
12.5°	16423.1	14333.3	11916.2	9569.6	7909.0	7198.3	6976.7	6980.1	7008.3	7029.4
15°	16409.0	13633.1	10442.1	7923.0	6839.4	6793.7	7032.9	7184.2	7265.1	7289.8
17.5°	16387.9	12795.8	8939.8	6800.8	6579.1	6888.7	7110.3	7208.8	7272.2	7275.7
20°	16303.4	11733.3	7553.6	6265.9	6522.8	6790.2	6927.4	7004.7	7057.5	7075.2
22.5°	16043.1	10551.1	6473.6	6026.7	6297.6	6512.2	6674.1	6762.0	6793.7	6814.8
25°	15575.2	9228.3	5727.7	5798.0	5984.5	6255.4	6385.5	6403.2	6392.6	6424.3
27.5°	14963.1	7810.5	5263.3	5488.5	5727.7	5959.9	6030.3	6019.7	5998.6	6033.8
30°	14224.2	6536.8	4967.8	5140.2	5467.3	5678.4	5741.7	5717.1	5674.9	5713.6
32.5°	13443.2	5495.4	4724.9	4897.3	5252.7	5460.3	5523.6	5499.0	5467.3	5499.0
35°	12714.9	4767.2	4499.9	4735.5	5083.8	5287.9	5368.8	5372.3	5372.3	5411.1
37.5°	12046.4	4341.5	4313.3	4633.5	4967.8	5150.7	5266.8	5273.8	5122.5	5133.1
40°	11427.2	4162.1	4228.9	4566.7	4855.1	5031.1	5038.1	4644.1	4366.1	4359.1
42.5°	10920.6	4126.9	4253.5	4559.6	4774.2	4781.3	4285.2	3979.2	3901.8	3905.2
45°	10445.7	4116.3	4309.8	4559.6	4654.6	4130.4	3796.2	3715.2	3722.3	3750.5
47.5°	9914.4	4074.1	4320.4	4496.3	4309.8	3673.0	3574.5	3539.3	3525.3	3532.3
50°	9333.9	3922.8	4186.7	4369.7	3718.8	3476.0	3352.9	3342.3	3360.0	3370.5
52.5°	8721.7	3676.6	3958.0	4141.0	3447.9	3303.6	3166.4	3191.0	3268.4	3293.0
55°	8320.6	3388.0	3655.5	3683.5	3257.9	3141.7	3025.7	3082.0	3226.2	3271.9
57.5°	8215.1	3082.0	3310.6	3279.0	3015.1	3001.1	2930.7	2980.0	3162.8	3229.8
60°	8183.4	2807.6	2972.9	2948.3	2779.4	2846.2	2828.7	2853.3	2916.6	2937.8
62.5°	7937.1	2589.5	2670.3	2635.2	2568.3	2684.4	2726.6	2673.8	2723.1	2747.7
65°	7310.9	2413.5	2374.8	2350.2	2378.3	2483.9	2568.3	2462.8	2508.5	2578.9
67.5°	6276.5	2174.2	2068.8	2096.8	2184.8	2241.2	2350.2	2230.6	2269.2	2388.9
70°	5076.8	1871.6	1776.7	1857.6	1942.1	2058.2	2075.7	1994.9	2086.3	2220.0
72.5°	3592.1	1565.6	1498.8	1664.1	1692.3	1843.6	1804.8	1766.2	1892.8	1938.6
75°	2491.0	1263.0	1224.4	1350.9	1453.0	1583.2	1555.0	1600.8	1868.2	1889.3
77.5°	1576.1	981.5	956.9	1037.9	1178.6	1322.9	1368.6	1889.3	3191.0	3317.7
80°	914.7	731.7	703.7	767.0	890.1	1023.8	1319.4	2318.5	2103.9	2079.3
82.5°	510.1	503.1	467.9	485.5	594.6	738.8	1864.7	1632.4	1326.4	1368.6
85°	239.2	295.5	253.3	242.7	334.3	865.5	1245.5	932.3	619.2	605.2
87.5°	63.3	56.3	56.3	63.3	140.7	745.9	496.1	397.6	235.7	228.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)