

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: P970819

Luminaire Tested: **NAV-SB6C-727-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970819
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-727-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42914.7 lumens
Efficiency: N/A
Efficacy: 142.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

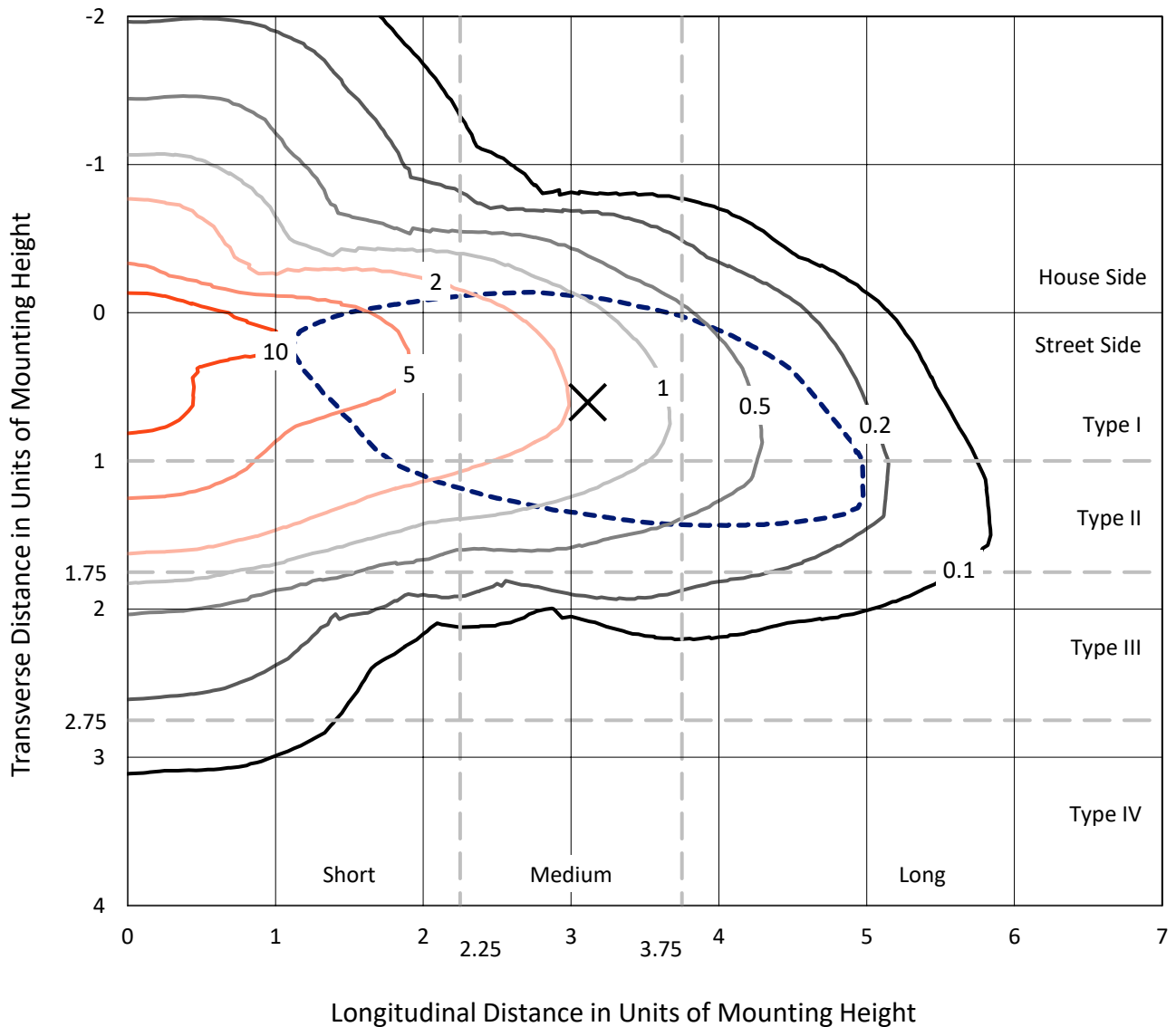
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

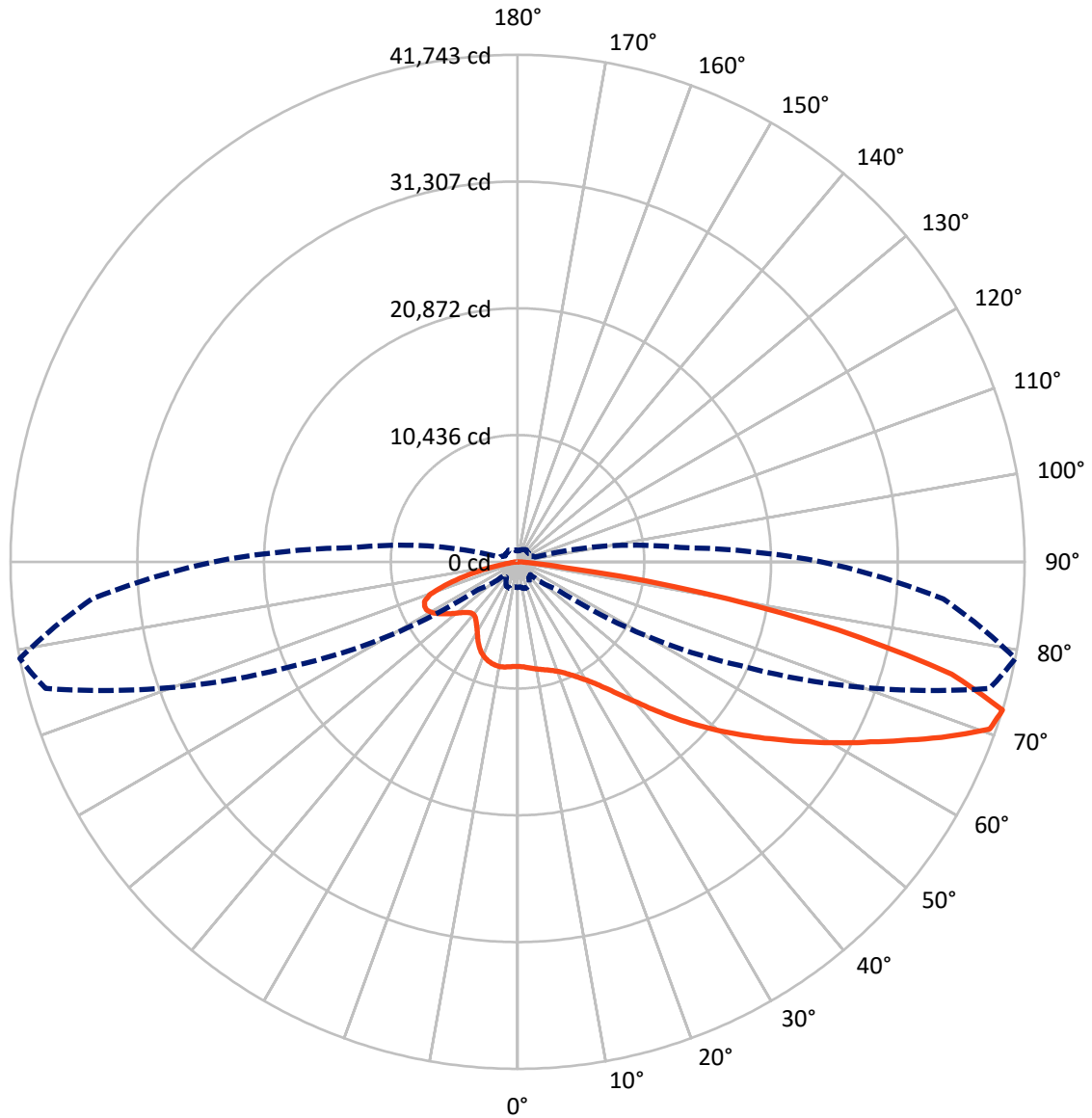
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9443.6	0.0	9443.6
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	33471.1	0.0	33471.1
	% Fixture	78.0	0.0	78.0
Total	Lumens	42914.7	0.0	42914.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	782.0	1.8
10°-20°	2044.5	4.8
20°-30°	3298.9	7.7
30°-40°	4951.2	11.5
40°-50°	7023.6	16.4
50°-60°	8869.8	20.7
60°-70°	9008.5	21.0
70°-80°	6139.7	14.3
80°-90°	796.6	1.9
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°	42914.7	100.0
0°-180°	42914.7	100.0

Coefficient of Utilization



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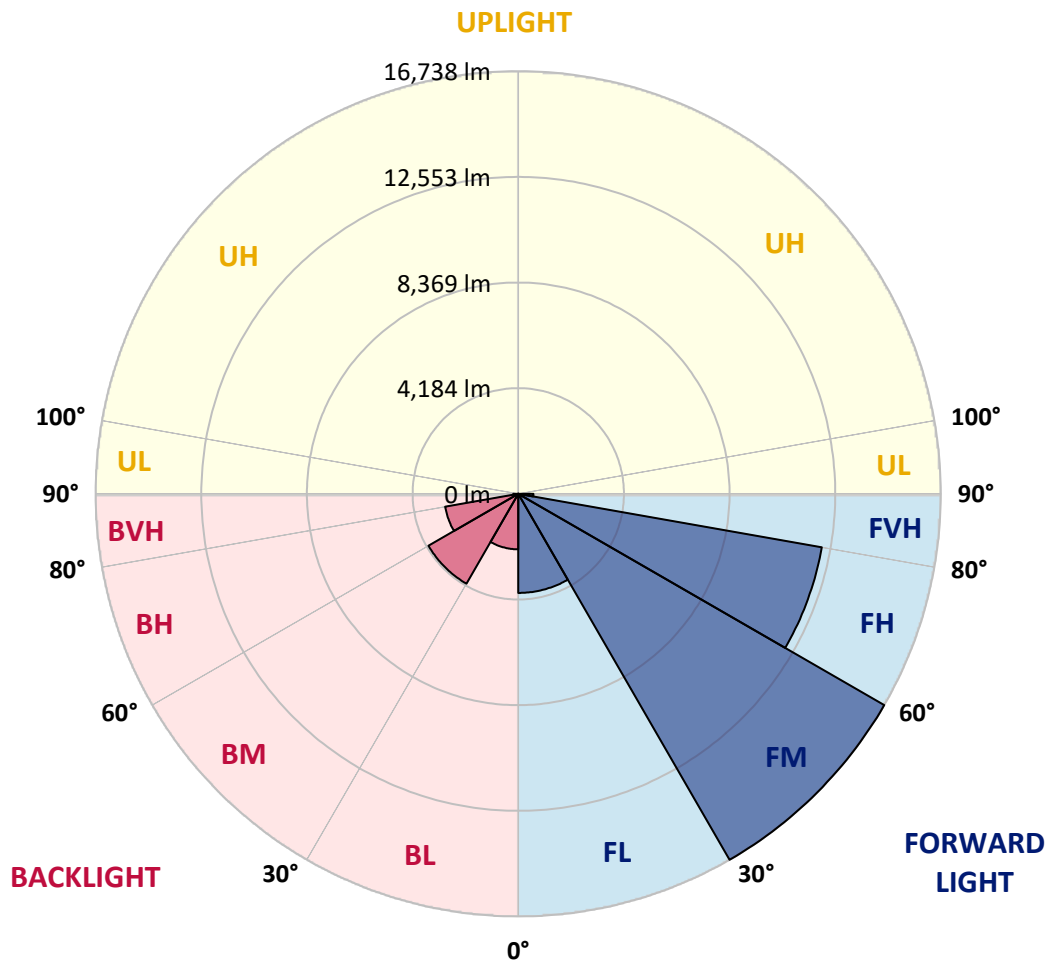
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3925.7	9.1			
FM (30°-60°)	16737.6	39.0			
FH (60°-80°)	12207.8	28.4			G5
FVH (80°-90°)	600.1	1.4			G4/750
BL (0°-30°)	2199.7	5.1	B3/2500		
BM (30°-60°)	4107.0	9.6	B3/5000		
BH (60°-80°)	2940.4	6.9	B4/5000		G4/5000
BVH (80°-90°)	196.5	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	8614.7	8614.7	8614.7	8614.7	8614.7	8614.7	8614.7	8614.7	8614.7	8614.7	8614.7
2.5°	8619.2	8578.4	8603.3	8594.3	8605.6	8619.2	8623.8	8630.6	8653.4	8651.0	8648.7
5°	8601.1	8560.3	8594.3	8582.9	8612.5	8644.2	8671.5	8696.4	8732.8	8748.7	8725.9
7.5°	8562.5	8535.3	8569.3	8603.3	8657.9	8705.5	8744.1	8800.9	8853.0	8862.2	8878.0
10°	8337.8	8317.4	8396.8	8485.4	8635.1	8764.6	8848.5	8914.3	8971.1	8980.2	9002.9
12.5°	8104.0	8078.9	8167.5	8287.8	8530.8	8764.6	8941.6	9027.9	9077.8	9107.3	9141.4
15°	8065.4	8044.9	8094.8	8199.3	8401.3	8703.3	9005.1	9164.0	9207.2	9241.2	9254.8
17.5°	8251.6	8212.9	8233.3	8269.7	8387.7	8646.5	9055.1	9318.4	9384.3	9420.6	9420.6
20°	8682.8	8628.3	8596.6	8523.9	8503.5	8655.6	9050.5	9504.5	9590.8	9636.2	9647.6
22.5°	9257.1	9220.8	9152.7	8968.9	8769.1	8766.8	9136.8	9742.9	9904.1	9947.2	9919.9
25°	9951.7	9897.3	9811.0	9561.3	9177.6	8987.0	9282.1	10047.0	10317.2	10328.6	10249.2
27.5°	10750.8	10669.1	10551.0	10221.9	9704.3	9332.0	9504.5	10396.7	10791.7	10787.1	10623.7
30°	11593.0	11511.3	11386.4	10986.9	10335.4	9797.4	9813.2	10773.5	11354.6	11329.6	11050.4
32.5°	12208.2	12146.9	12121.9	11813.1	11061.8	10346.8	10167.4	11191.2	12049.3	12026.5	11636.1
35°	12680.3	12600.8	12630.4	12473.7	11854.0	10962.0	10601.0	11688.3	12893.7	12891.4	12405.7
37.5°	13148.0	13077.6	13102.6	12998.1	12587.2	11742.8	11129.9	12296.7	13940.2	13990.1	13336.4
40°	13574.7	13499.8	13599.7	13502.0	13157.0	12573.7	11731.4	12984.5	15152.4	15247.7	14462.2
42.5°	13831.2	13772.2	13938.0	13940.2	13651.9	13275.1	12392.0	13742.7	16555.3	16768.6	15847.0
45°	13919.7	13899.3	14149.0	14201.3	14090.0	13681.4	12986.7	14568.9	18067.1	18448.5	17424.7
47.5°	13824.4	13785.8	14130.9	14323.9	14412.3	13872.0	13479.4	15463.4	19610.7	20169.1	19145.4
50°	13343.1	13268.2	13781.3	14187.6	14503.1	13996.9	13976.5	16496.2	21365.4	21976.0	20875.0
52.5°	12478.2	12421.6	13004.9	13710.9	14303.4	14058.2	14534.9	17624.5	23031.6	23821.6	22648.0
55°	11372.8	11297.9	11940.3	12861.9	13806.2	14037.8	15093.3	18886.5	24997.4	25798.7	24479.9
57.5°	9620.3	9470.5	10283.2	11372.8	12995.9	14012.8	15674.5	20141.9	26995.0	27955.2	26434.3
60°	7064.3	6841.9	7838.4	9130.0	11411.4	13770.0	16394.1	21549.3	29392.2	30257.1	28568.2
62.5°	4113.2	3983.9	4635.4	5840.8	8601.1	12339.8	16798.1	23186.0	31748.5	32656.5	30665.6
65°	3193.9	3157.6	3214.3	3307.4	4787.5	9238.9	15551.9	24781.8	34744.9	35380.5	32851.7
67.5°	2921.6	2894.3	2919.2	2744.4	2428.9	5146.1	12303.5	25185.9	37954.7	38340.6	34765.3
70°	2596.9	2565.2	2646.9	2497.0	1911.3	2340.4	7949.6	23719.4	40508.5	41232.6	36220.4
72.5°	2115.7	2079.3	2270.1	2201.9	1609.5	1502.8	3993.0	20234.9	40240.6	41743.3	35178.5
75°	1625.3	1604.9	1831.9	1888.7	1312.1	1182.6	1915.9	15041.2	35412.3	36926.3	30318.4
77.5°	1262.1	1246.2	1362.0	1568.6	1057.8	917.1	1178.1	9540.9	26686.3	26952.0	20893.3
80°	946.6	901.2	1007.9	1214.4	824.0	669.6	799.1	5563.8	16868.5	15290.8	9093.7
82.5°	592.4	569.8	658.3	810.4	581.2	460.8	519.9	3073.6	6760.1	3981.6	1754.7
85°	338.2	329.1	358.6	463.1	315.5	265.6	297.4	1357.5	1234.9	849.0	528.9
87.5°	136.2	131.6	163.5	206.5	115.7	97.6	104.4	326.9	272.4	251.9	174.8
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°	8614.7	8614.7	8614.7	8614.7	8614.7	8614.7	8614.7	8614.7	8614.7	8614.7	8614.7
2.5°	8639.7	8639.7	8607.9	8557.9	8501.2	8464.9	8405.9	8390.0	8328.7	8310.5	8340.0
5°	8744.1	8725.9	8628.3	8487.6	8294.6	8117.6	7922.3	7799.7	7627.2	7565.9	7611.3
7.5°	8875.8	8825.9	8657.9	8349.1	7945.1	7547.8	7134.7	6821.4	6521.8	6415.1	6428.7
10°	8996.1	8925.7	8639.7	8099.4	7400.3	6712.4	6054.2	5593.3	5243.7	5100.7	5132.5
12.5°	9116.3	8987.0	8519.4	7684.0	6626.2	5693.2	4991.8	4633.1	4417.4	4244.9	4301.7
15°	9229.9	9048.3	8333.2	7127.8	5777.2	4830.6	4313.0	4027.0	3854.5	3740.9	3761.4
17.5°	9361.5	9100.5	8054.0	6421.8	4969.1	4233.6	3811.4	3638.9	3604.8	3591.2	3600.2
20°	9545.4	9148.1	7686.3	5632.0	4374.3	3756.8	3538.9	3523.0	3520.8	3514.0	3536.7
22.5°	9742.9	9204.9	7200.5	4914.6	3868.1	3459.5	3420.9	3389.2	3368.7	3366.4	3391.4
25°	9976.7	9223.1	6592.1	4326.6	3436.8	3318.7	3273.3	3225.7	3212.0	3212.0	3225.7
27.5°	10203.8	9161.8	5883.9	3815.9	3193.9	3189.4	3130.4	3114.5	3112.2	3119.0	3137.1
30°	10430.7	9046.0	5180.1	3343.8	3053.2	3053.2	3032.8	3044.0	3053.2	3075.9	3091.8
32.5°	10737.2	8923.4	4592.2	2994.1	2930.6	2907.9	2928.3	2951.0	2960.1	2989.6	3014.6
35°	11186.6	8837.1	4124.6	2803.5	2803.5	2774.0	2785.3	2780.7	2760.3	2746.7	2778.5
37.5°	11781.3	8832.6	3738.7	2714.9	2696.8	2692.3	2694.5	2665.0	2585.6	2490.2	2492.5
40°	12496.5	8955.2	3441.3	2653.6	2640.0	2667.3	2653.6	2574.2	2356.3	2190.5	2186.0
42.5°	13456.7	9304.8	3250.7	2578.7	2619.6	2653.6	2599.2	2324.5	2177.0	2065.7	2061.2
45°	14587.2	9872.3	3153.1	2499.3	2581.1	2621.8	2358.5	2238.2	2120.2	1986.2	1977.2
47.5°	15867.4	10587.3	3130.4	2424.3	2494.7	2519.8	2256.4	2201.9	2067.9	1922.7	1911.3
50°	17261.2	11434.1	3191.6	2335.9	2369.9	2283.6	2222.3	2172.4	2033.9	1890.9	1875.0
52.5°	18702.7	12367.0	3314.2	2215.5	2245.1	2149.7	2208.8	2165.6	2013.5	1820.6	1807.0
55°	20119.2	13306.9	3432.3	2074.8	2118.0	2029.4	2170.1	2138.4	1920.4	1702.5	1691.1
57.5°	21558.3	14242.1	3548.0	1950.0	1995.4	1913.7	2108.8	2065.7	1816.0	1593.6	1589.1
60°	23054.3	15150.1	3602.6	1829.6	1861.4	1807.0	2015.8	1940.8	1698.0	1482.4	1475.5
62.5°	24454.9	15906.1	3514.0	1709.3	1729.8	1707.0	1893.2	1793.3	1579.9	1357.5	1355.2
65°	25860.0	16355.5	3241.6	1591.3	1595.8	1584.4	1720.7	1634.4	1441.5	1248.6	1234.9
67.5°	27133.5	16607.5	2808.0	1464.2	1452.8	1448.2	1559.5	1461.9	1307.5	1139.6	1126.0
70°	27403.7	15967.3	2145.1	1314.4	1314.4	1303.0	1382.4	1282.6	1160.0	1023.8	1019.3
72.5°	25029.2	13431.7	1523.1	1144.1	1162.2	1139.6	1205.4	1121.4	1010.1	919.3	892.2
75°	20182.8	9849.6	1107.7	969.3	1001.1	962.5	1023.8	964.7	869.4	867.2	780.8
77.5°	13867.5	6090.4	803.6	799.1	821.7	771.8	842.1	810.4	724.2	685.5	642.4
80°	5917.9	2428.9	585.7	617.5	617.5	572.1	653.7	662.9	587.9	569.8	569.8
82.5°	1178.1	690.1	410.9	424.5	399.5	385.9	463.1	513.0	708.3	787.7	790.0
85°	354.1	254.2	247.4	231.5	204.3	206.5	272.4	515.3	635.6	363.2	313.2
87.5°	97.6	63.6	65.8	52.2	43.2	56.8	93.1	390.4	213.4	90.8	77.2
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)