

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: P970354

Luminaire Tested: **NAV-SB6B-735-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970354
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-SB6B-735-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34788.5 lumens
Efficiency: N/A
Efficacy: 157.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 220.4
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



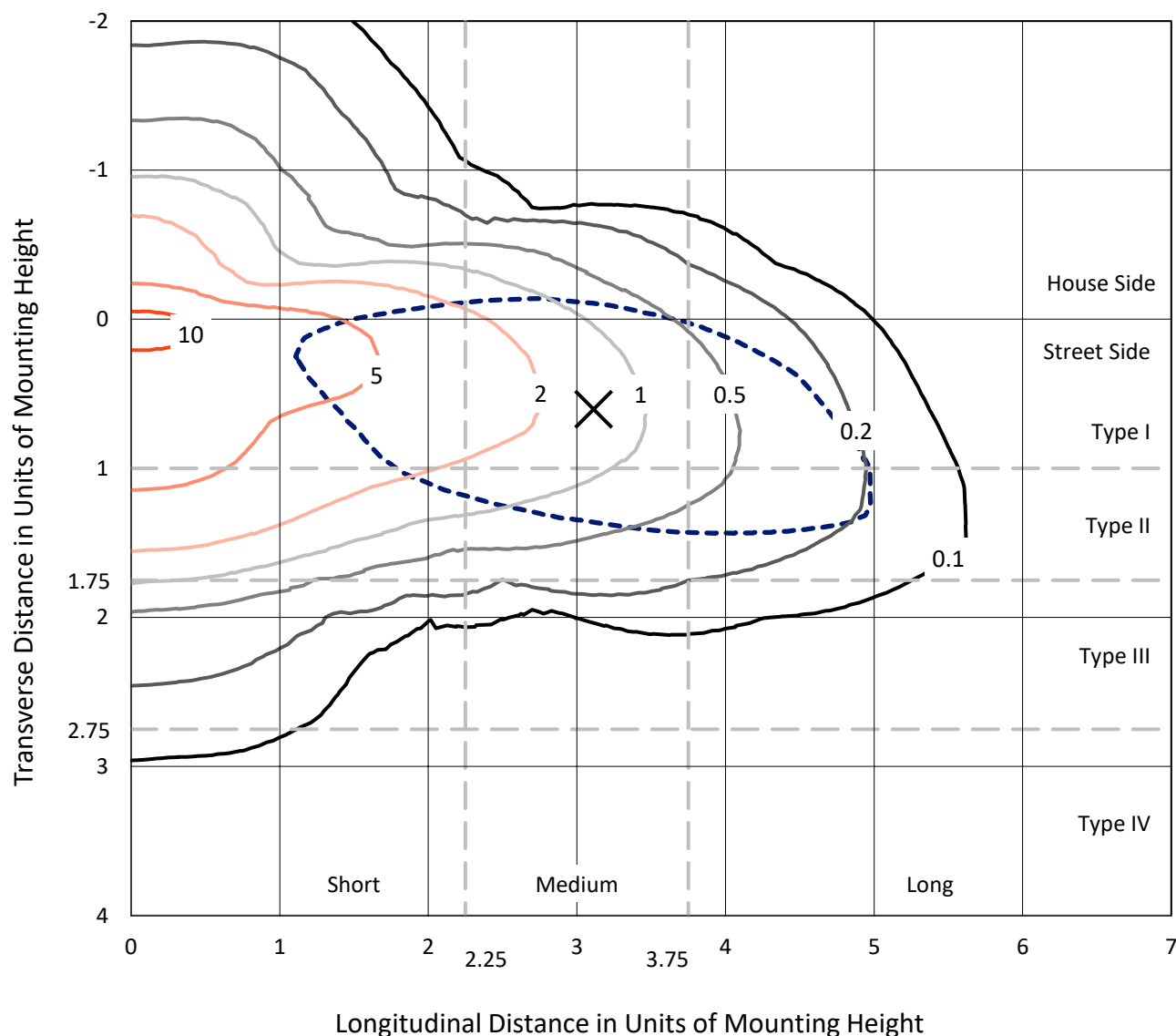
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

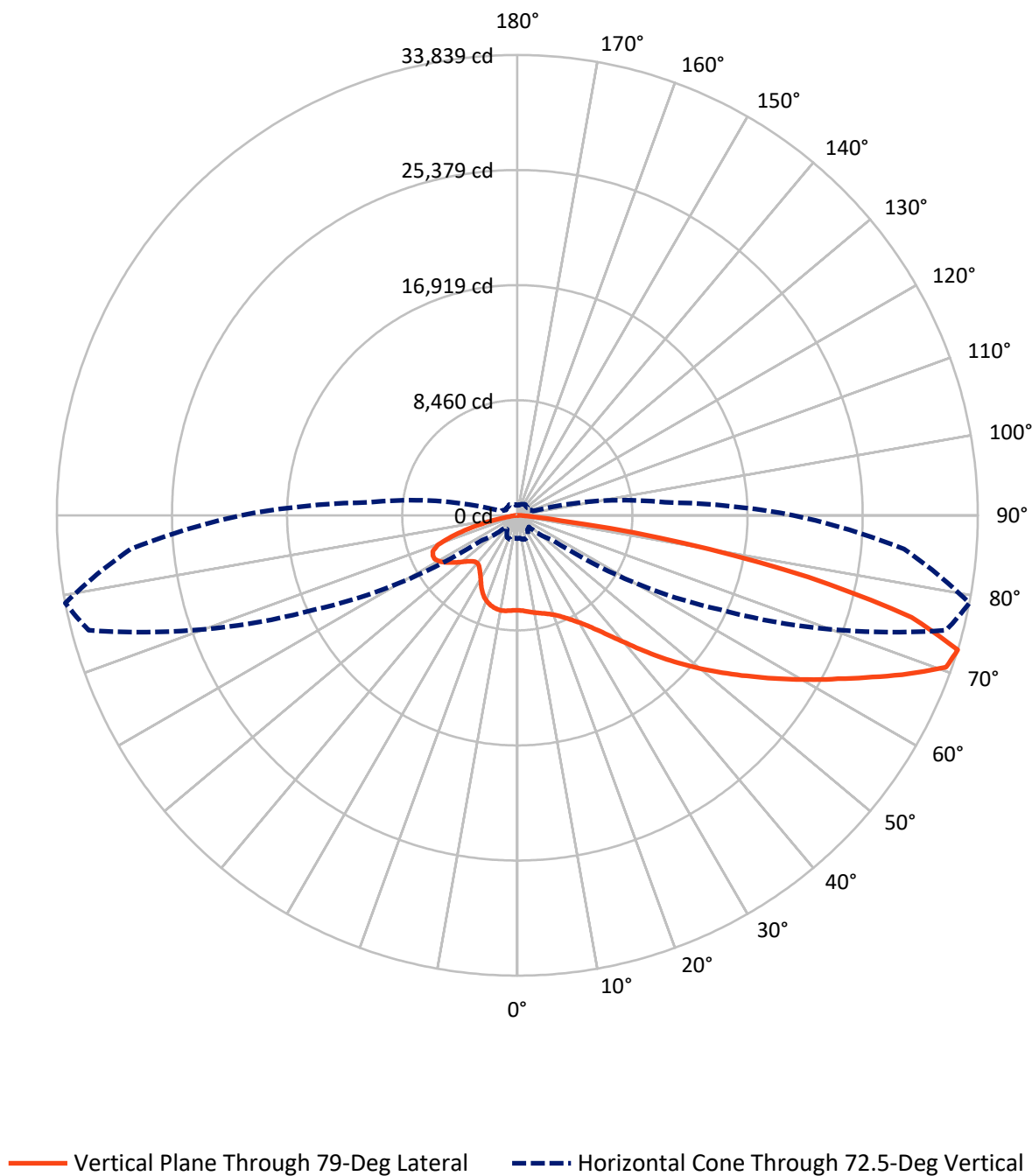
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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	7655.4	0.0	7655.4
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	27133.1	0.0	27133.1
	% Fixture	78.0	0.0	78.0
Total	Lumens	34788.5	0.0	34788.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	633.9	1.8
10°-20°	1657.3	4.8
20°-30°	2674.2	7.7
30°-40°	4013.7	11.5
40°-50°	5693.6	16.4
50°-60°	7190.3	20.7
60°-70°	7302.7	21.0
70°-80°	4977.1	14.3
80°-90°	645.7	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°	34788.5	100.0
0°-180°	34788.5	100.0

Coefficient of Utilization



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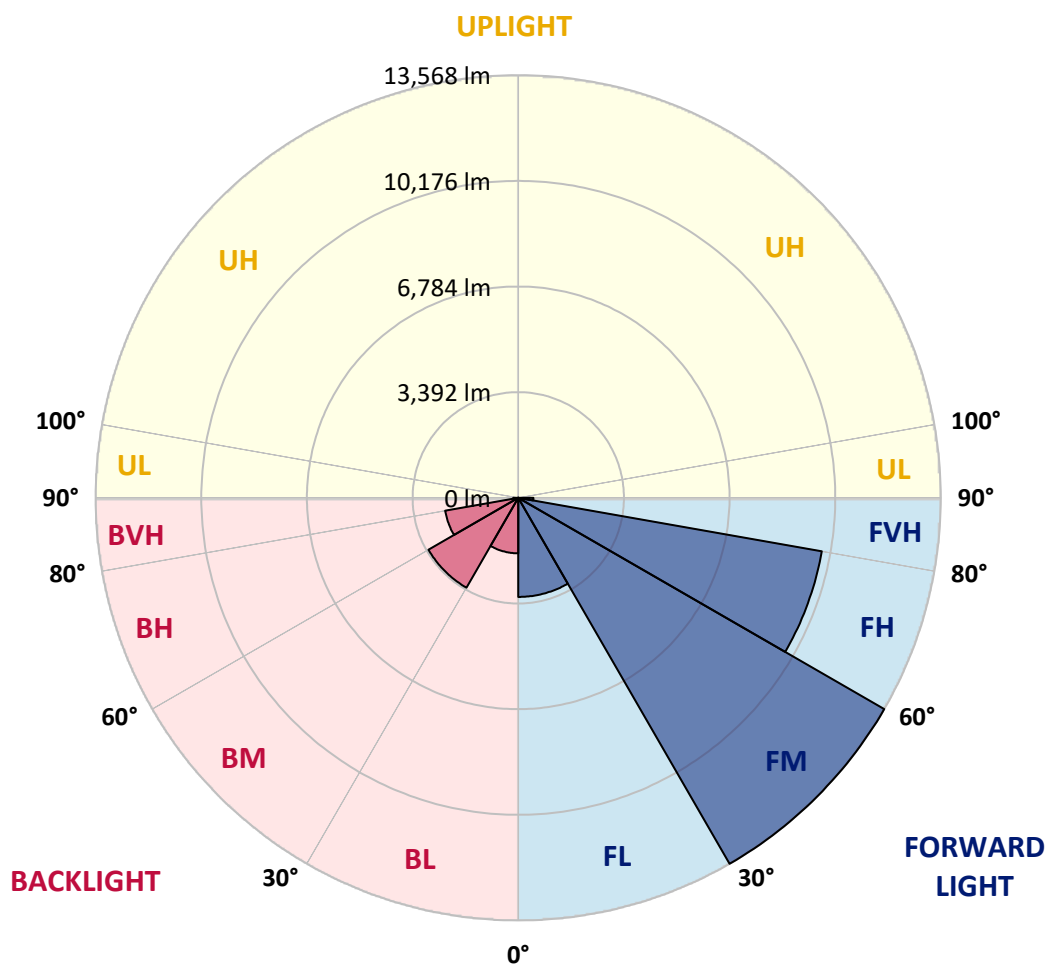
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3182.3	9.1			
FM	(30°-60°)	13568.2	39.0			
FH	(60°-80°)	9896.1	28.4			G4/12000
FVH	(80°-90°)	486.4	1.4			G3/500
BL	(0°-30°)	1783.2	5.1	B3/2500		
BM	(30°-60°)	3329.3	9.6	B3/5000		
BH	(60°-80°)	2383.6	6.9	B3/2500		G3/2500
BVH	(80°-90°)	159.3	0.5			G2/225
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°	79°	85°
0°	6983.4	6983.4	6983.4	6983.4	6983.4	6983.4	6983.4	6983.4	6983.4	6983.4	6983.4
2.5°	6987.1	6954.0	6974.3	6966.9	6976.2	6987.1	6990.8	6996.3	7014.8	7012.9	7011.1
5°	6972.5	6939.2	6966.9	6957.7	6981.6	7007.4	7029.4	7049.7	7079.2	7092.1	7073.6
7.5°	6941.1	6919.1	6946.6	6974.3	7018.4	7057.0	7088.4	7134.3	7176.6	7184.0	7196.9
10°	6759.0	6742.3	6806.8	6878.6	7000.0	7104.9	7173.0	7226.4	7272.4	7279.8	7298.1
12.5°	6569.4	6549.1	6621.0	6718.5	6915.4	7104.9	7248.5	7318.4	7358.9	7382.8	7410.3
15°	6538.2	6521.6	6562.0	6646.7	6810.5	7055.2	7299.9	7428.8	7463.7	7491.3	7502.4
17.5°	6689.0	6657.8	6674.3	6703.7	6799.4	7009.3	7340.4	7553.9	7607.2	7636.8	7636.8
20°	7038.7	6994.5	6968.8	6909.8	6893.3	7016.5	7336.7	7704.8	7774.7	7811.5	7820.7
22.5°	7504.2	7474.8	7419.6	7270.5	7108.6	7106.7	7406.6	7898.0	8028.7	8063.7	8041.5
25°	8067.4	8023.2	7953.3	7750.8	7439.9	7285.3	7524.4	8144.6	8363.6	8372.8	8308.3
27.5°	8715.1	8648.8	8553.1	8286.3	7866.8	7564.9	7704.8	8428.0	8748.2	8744.5	8612.0
30°	9397.8	9331.5	9230.3	8906.4	8378.3	7942.2	7955.0	8733.5	9204.5	9184.3	8958.0
32.5°	9896.5	9846.8	9826.6	9576.3	8967.2	8387.5	8242.1	9072.1	9767.6	9749.3	9432.8
35°	10279.2	10214.8	10238.7	10111.7	9609.4	8886.2	8593.6	9475.1	10452.2	10450.4	10056.6
37.5°	10658.3	10601.3	10621.5	10536.8	10203.8	9519.2	9022.4	9968.2	11300.5	11341.0	10811.0
40°	11004.2	10943.5	11024.5	10945.4	10665.6	10192.7	9510.1	10525.8	12283.2	12360.5	11723.7
42.5°	11212.2	11164.3	11298.7	11300.5	11066.8	10761.4	10045.5	11140.4	13420.4	13593.3	12846.2
45°	11283.9	11267.4	11469.9	11512.1	11422.0	11090.7	10527.7	11810.3	14645.9	14955.1	14125.2
47.5°	11206.6	11175.4	11455.1	11611.5	11683.3	11245.3	10926.9	12535.2	15897.2	16350.0	15520.0
50°	10816.5	10755.8	11171.7	11501.1	11756.9	11346.5	11329.9	13372.6	17319.7	17814.7	16922.2
52.5°	10115.4	10069.4	10542.3	11114.7	11594.9	11396.2	11782.7	14287.1	18670.4	19310.8	18359.4
55°	9219.3	9158.6	9679.3	10426.4	11192.0	11379.7	12235.3	15310.2	20264.0	20913.6	19844.4
57.5°	7798.6	7677.2	8336.0	9219.3	10534.9	11359.4	12706.4	16327.8	21883.3	22661.7	21428.9
60°	5726.6	5546.3	6354.1	7401.2	9250.5	11162.5	13289.7	17468.8	23826.5	24527.6	23158.5
62.5°	3334.4	3229.5	3757.6	4734.8	6972.5	10003.2	13617.3	18795.5	25736.7	26472.8	24858.9
65°	2589.1	2559.7	2605.7	2681.1	3881.0	7489.5	12607.0	20089.2	28165.7	28680.9	26631.0
67.5°	2368.3	2346.2	2366.4	2224.8	1969.0	4171.6	9973.8	20416.8	30767.7	31080.6	28182.3
70°	2105.1	2079.4	2145.6	2024.2	1549.4	1897.2	6444.3	19228.0	32837.9	33424.9	29361.8
72.5°	1715.0	1685.6	1840.2	1784.9	1304.7	1218.2	3236.8	16403.3	32620.7	33838.9	28517.1
75°	1317.5	1301.0	1485.0	1531.0	1063.6	958.7	1553.1	12193.0	28706.8	29934.1	24577.3
77.5°	1023.2	1010.2	1104.1	1271.5	857.5	743.4	955.1	7734.2	21633.1	21848.4	16937.0
80°	767.3	730.5	817.0	984.5	668.0	542.8	647.7	4510.3	13674.3	12395.4	7371.7
82.5°	480.3	461.9	533.6	656.9	471.1	373.5	421.4	2491.6	5480.1	3227.6	1422.5
85°	274.2	266.8	290.8	375.4	255.7	215.2	241.1	1100.4	1001.0	688.2	428.8
87.5°	110.4	106.7	132.5	167.5	93.9	79.1	84.7	265.0	220.8	204.3	141.7
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°	6983.4	6983.4	6983.4	6983.4	6983.4	6983.4	6983.4	6983.4	6983.4	6983.4	6983.4
2.5°	7003.7	7003.7	6977.9	6937.5	6891.5	6862.0	6814.2	6801.3	6751.6	6736.9	6760.8
5°	7088.4	7073.6	6994.5	6880.4	6724.0	6580.5	6422.2	6322.8	6183.0	6133.3	6170.1
7.5°	7195.1	7154.6	7018.4	6768.2	6440.6	6118.5	5783.7	5529.8	5286.8	5200.3	5211.4
10°	7292.6	7235.6	7003.7	6565.7	5999.0	5441.4	4907.7	4534.2	4250.8	4134.8	4160.7
12.5°	7390.1	7285.3	6906.1	6229.0	5371.5	4615.2	4046.5	3755.8	3580.9	3441.1	3487.2
15°	7482.2	7334.9	6755.3	5778.1	4683.2	3915.9	3496.4	3264.4	3124.6	3032.6	3049.2
17.5°	7588.9	7377.2	6528.9	5205.9	4028.1	3431.9	3089.7	2949.8	2922.2	2911.2	2918.5
20°	7737.9	7415.9	6230.9	4565.5	3546.0	3045.5	2868.9	2856.0	2854.1	2848.6	2867.0
22.5°	7898.0	7461.9	5837.1	3984.0	3135.7	2804.4	2773.1	2747.4	2730.8	2729.0	2749.3
25°	8087.6	7476.7	5343.8	3507.3	2786.1	2690.3	2653.5	2614.9	2603.8	2603.8	2614.9
27.5°	8271.5	7426.9	4769.7	3093.3	2589.1	2585.5	2537.6	2524.7	2522.8	2528.4	2543.1
30°	8455.6	7333.1	4199.3	2710.6	2475.1	2475.1	2458.5	2467.7	2475.1	2493.4	2506.3
32.5°	8704.0	7233.7	3722.7	2427.2	2375.6	2357.3	2373.8	2392.2	2399.6	2423.5	2443.7
35°	9068.4	7163.8	3343.6	2272.6	2272.6	2248.6	2257.9	2254.2	2237.7	2226.6	2252.3
37.5°	9550.5	7160.1	3030.7	2200.9	2186.1	2182.4	2184.3	2160.4	2095.9	2018.6	2020.5
40°	10130.2	7259.5	2789.7	2151.2	2140.1	2162.2	2151.2	2086.8	1910.1	1775.8	1772.1
42.5°	10908.6	7542.9	2635.2	2090.5	2123.6	2151.2	2107.0	1884.4	1764.7	1674.5	1670.9
45°	11824.9	8002.9	2556.0	2026.0	2092.2	2125.4	1911.9	1814.5	1718.7	1610.2	1602.8
47.5°	12862.8	8582.5	2537.6	1965.3	2022.3	2042.6	1829.1	1784.9	1676.4	1558.6	1549.4
50°	13992.7	9269.0	2587.3	1893.6	1921.2	1851.3	1801.5	1761.1	1648.8	1532.9	1520.0
52.5°	15161.2	10025.2	2686.6	1796.0	1819.9	1742.6	1790.5	1755.5	1632.2	1475.8	1464.8
55°	16309.5	10787.1	2782.4	1681.9	1716.9	1645.1	1759.2	1733.5	1556.8	1380.2	1370.9
57.5°	17476.1	11545.3	2876.1	1580.8	1617.6	1551.2	1709.5	1674.5	1472.1	1291.8	1288.1
60°	18688.8	12281.3	2920.3	1483.2	1508.9	1464.8	1634.1	1573.4	1376.5	1201.6	1196.1
62.5°	19824.2	12894.1	2848.6	1385.7	1402.2	1383.9	1534.7	1453.8	1280.7	1100.4	1098.6
65°	20963.3	13258.5	2627.8	1290.0	1293.7	1284.4	1394.8	1324.9	1168.5	1012.1	1001.0
67.5°	21995.6	13462.8	2276.3	1186.9	1177.7	1174.0	1264.2	1185.1	1060.0	923.7	912.8
70°	22214.6	12943.8	1739.0	1065.5	1065.5	1056.3	1120.6	1039.7	940.3	829.9	826.3
72.5°	20289.8	10888.3	1234.7	927.4	942.2	923.7	977.1	909.1	818.9	745.3	723.1
75°	16360.9	7984.5	898.0	785.8	811.5	780.2	829.9	782.1	704.8	702.9	633.0
77.5°	11241.6	4937.2	651.4	647.7	666.1	625.7	682.8	656.9	587.0	555.8	520.8
80°	4797.3	1969.0	474.8	500.5	500.5	463.7	529.9	537.3	476.6	461.9	461.9
82.5°	955.1	559.4	333.0	344.1	323.9	312.8	375.4	415.8	574.1	638.6	640.4
85°	287.1	206.1	200.6	187.7	165.6	167.5	220.8	417.7	515.3	294.4	254.0
87.5°	79.1	51.6	53.4	42.3	35.0	46.0	75.4	316.5	173.0	73.6	62.5
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)