

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: P970400

Luminaire Tested: **NAV-SB6B-740-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970400
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-740-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36690.9 lumens
Efficiency: N/A
Efficacy: 166.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

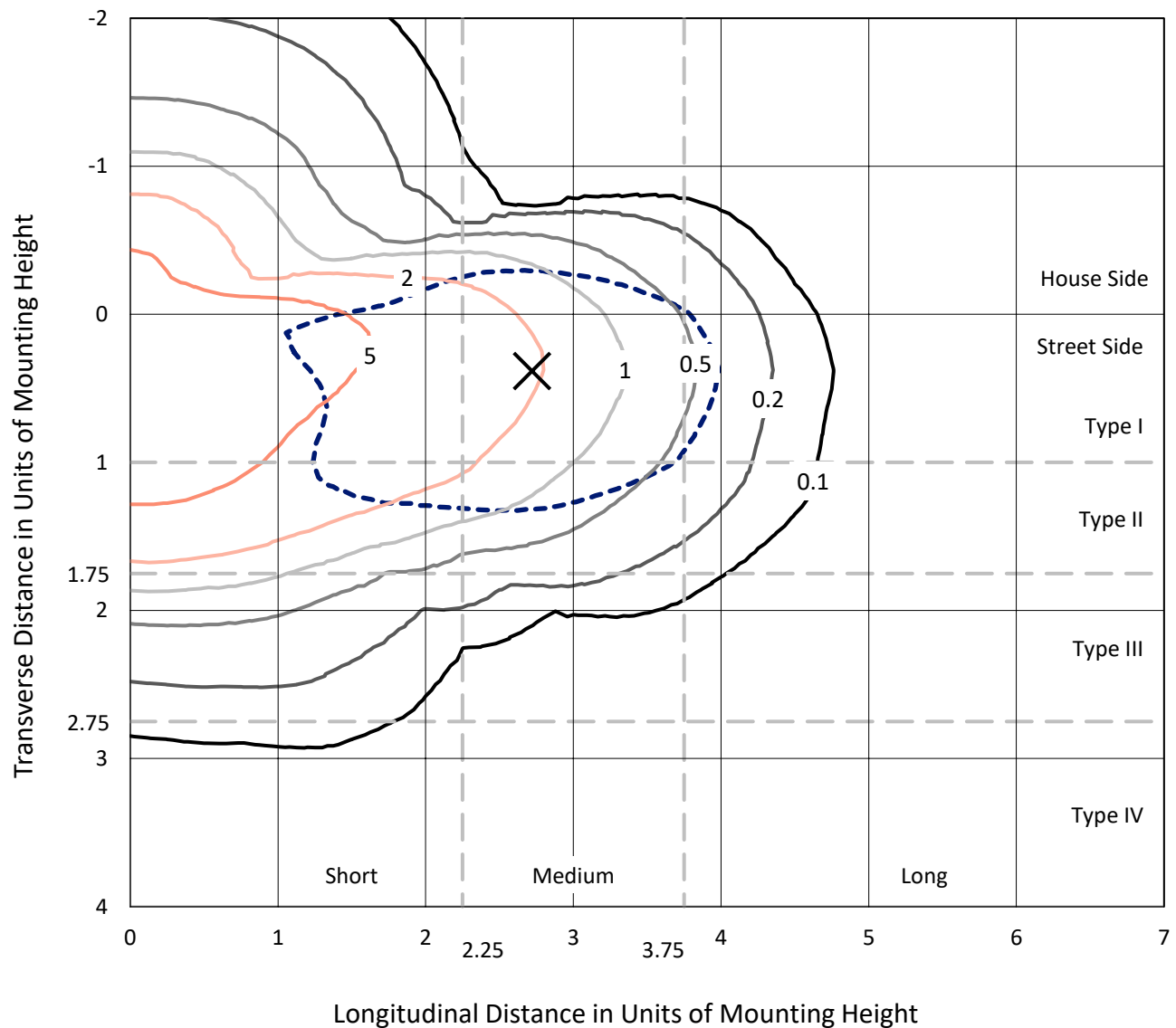
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

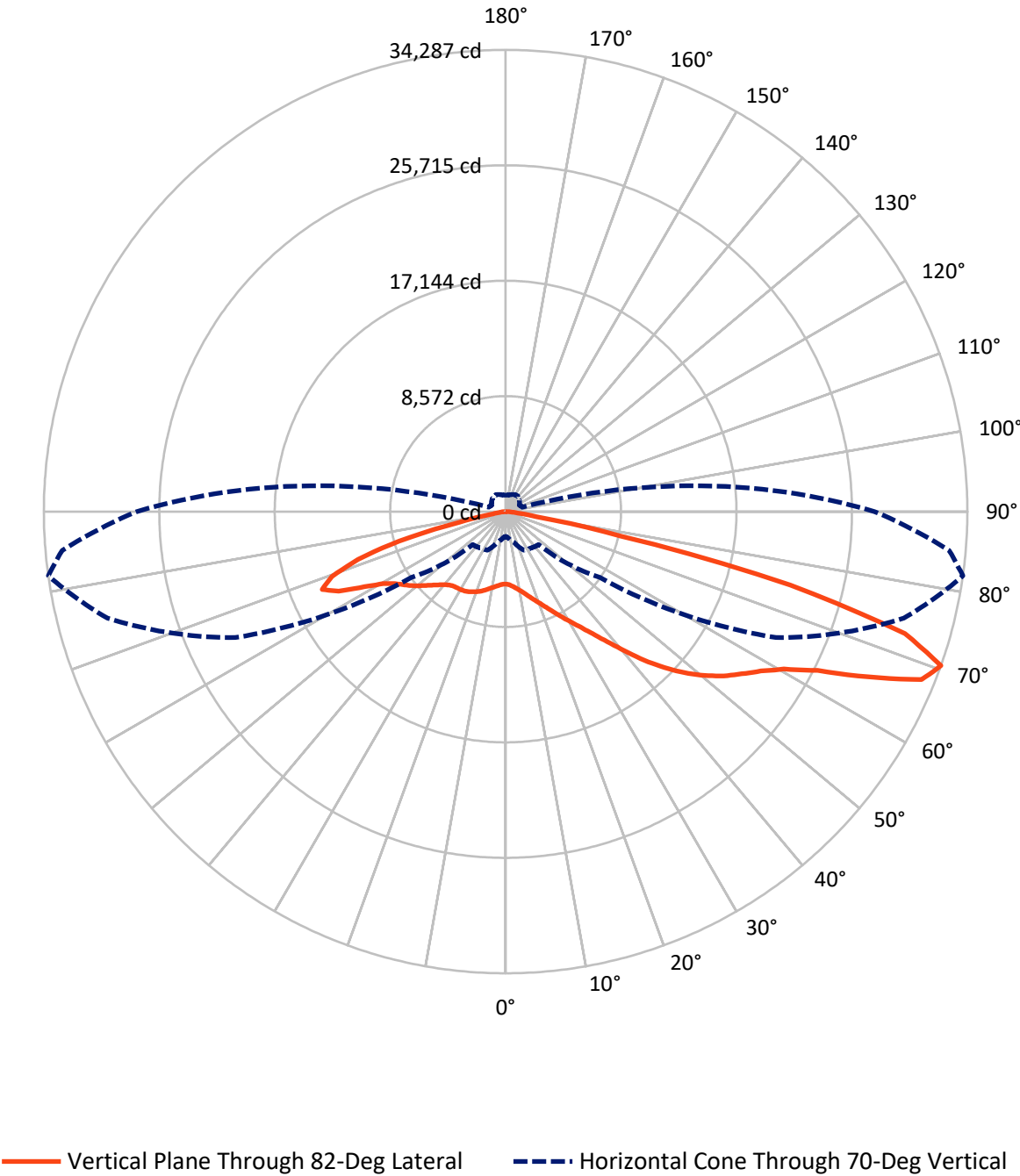
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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	9045.2	0.0	9045.2
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	27645.7	0.0	27645.7
	% Fixture	75.3	0.0	75.3
Total	Lumens	36690.9	0.0	36690.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	507.9	1.4
10°-20°	1459.2	4.0
20°-30°	2441.2	6.7
30°-40°	3813.7	10.4
40°-50°	6073.8	16.6
50°-60°	8452.4	23.0
60°-70°	8841.6	24.1
70°-80°	4621.1	12.6
80°-90°	479.9	1.3
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°	36690.9	100.0
0°-180°	36690.9	100.0

Coefficient of Utilization



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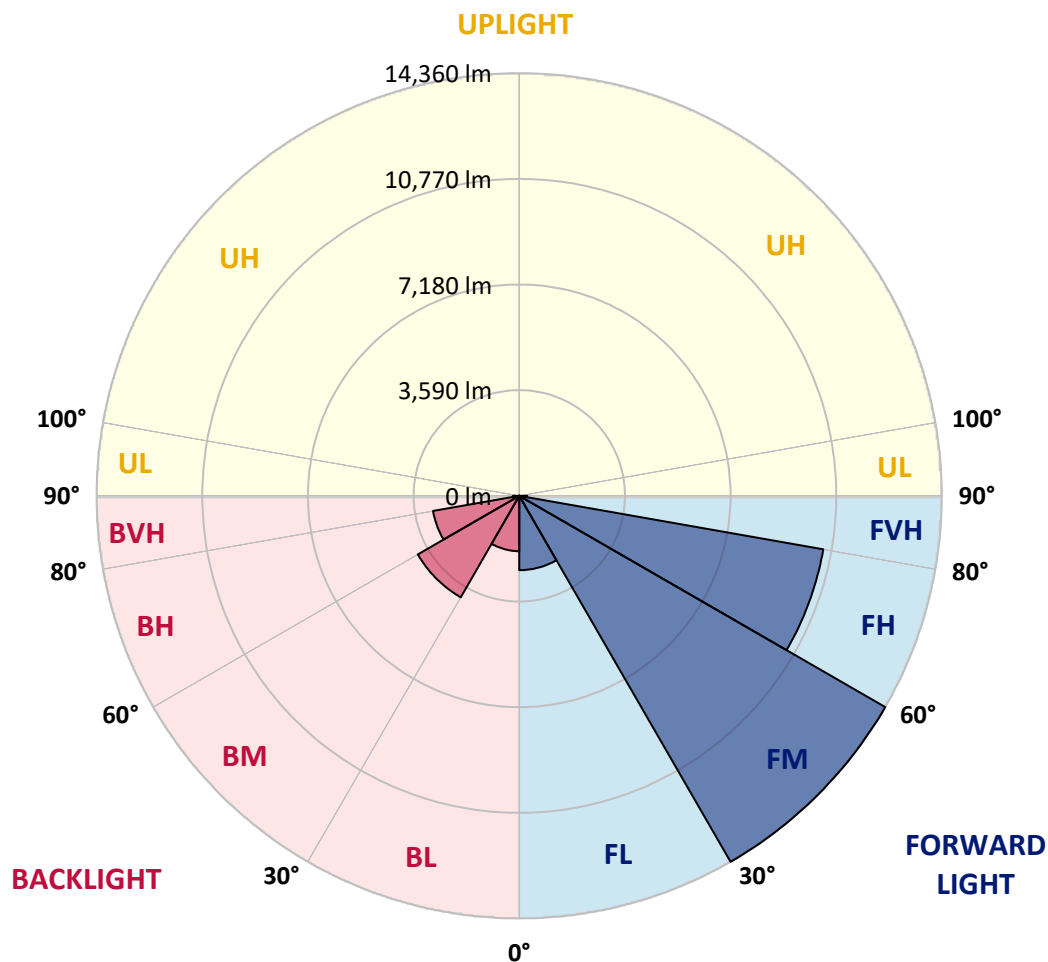
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2526.6	6.9			
FM	(30°-60°)	14360.5	39.1			
FH	(60°-80°)	10490.0	28.6			G4/12000
FVH	(80°-90°)	268.6	0.7			G3/500
BL	(0°-30°)	1881.7	5.1	B3/2500		
BM	(30°-60°)	3979.5	10.8	B3/5000		
BH	(60°-80°)	2972.7	8.1	B4/5000		G4/5000
BVH	(80°-90°)	211.2	0.6			G2/225
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	5379.3	5379.3	5379.3	5379.3	5379.3	5379.3	5379.3	5379.3	5379.3	5379.3	5379.3
2.5°	5507.8	5539.0	5529.3	5519.5	5519.5	5505.9	5503.9	5484.5	5468.9	5443.6	5437.7
5°	5577.9	5611.1	5607.2	5615.0	5640.3	5646.1	5652.0	5640.3	5609.1	5577.9	5564.3
7.5°	5515.6	5552.6	5564.3	5611.1	5689.0	5759.0	5811.5	5833.0	5803.8	5759.0	5737.5
10°	5305.4	5346.3	5387.1	5498.1	5636.4	5801.8	5942.0	6025.8	6019.9	5977.1	5940.1
12.5°	4879.0	4921.8	5009.4	5225.6	5478.6	5770.6	6031.6	6206.8	6267.2	6236.0	6171.7
15°	4538.3	4575.3	4641.5	4863.4	5192.4	5636.4	6064.6	6405.3	6559.2	6541.7	6463.8
17.5°	4528.6	4544.1	4585.0	4690.1	4943.3	5426.0	6029.7	6600.1	6894.0	6892.1	6794.7
20°	4699.8	4705.7	4729.0	4750.5	4894.6	5266.4	5940.1	6761.6	7269.8	7269.8	7164.6
22.5°	4937.4	4933.5	4956.9	4937.4	5007.4	5252.8	5883.6	6903.8	7688.4	7719.6	7587.2
25°	5293.7	5274.2	5268.4	5223.6	5237.2	5379.3	5945.9	7065.4	8184.8	8249.1	8083.7
27.5°	5768.7	5737.5	5716.1	5613.0	5577.9	5640.3	6136.7	7260.1	8737.8	8848.7	8638.5
30°	6387.8	6331.4	6300.3	6121.1	5994.6	6004.3	6424.8	7519.0	9316.0	9495.1	9228.4
32.5°	7232.8	7145.2	7061.5	6767.5	6535.8	6459.9	6796.7	7877.2	9942.9	10229.1	9886.4
35°	8179.0	8109.0	8019.4	7565.7	7209.4	7034.3	7299.0	8377.6	10676.9	11130.6	10684.7
37.5°	9090.2	9029.8	9072.7	8461.3	8001.9	7746.8	7957.1	9049.3	11582.2	12251.9	11685.4
40°	10032.5	9985.8	9991.6	9407.6	8872.1	8585.9	8755.3	9892.3	12619.9	13585.7	12888.7
42.5°	11056.6	11021.5	10904.7	10386.8	9785.3	9518.5	9674.3	10865.8	13733.6	15104.2	14208.7
45°	12203.3	12181.9	12072.9	11479.1	10789.9	10490.1	10700.3	11940.4	14853.1	16533.2	15534.5
47.5°	13194.3	13211.8	13198.2	12697.8	11983.3	11543.3	11794.5	13061.9	15894.7	17876.6	16805.8
50°	13671.2	13762.8	13897.2	13741.4	13297.4	12849.7	12898.4	14144.4	16887.6	19136.3	18024.6
52.5°	13422.1	13595.4	13961.4	14210.6	14381.9	14288.5	14158.0	15219.1	17822.1	20273.3	19177.1
55°	12493.4	12736.8	13344.2	13945.8	14820.0	15499.4	15670.8	16410.6	18733.3	21274.0	20267.4
57.5°	10801.6	11196.8	11741.9	12958.7	14430.6	16085.4	17434.6	18063.6	19699.0	22342.8	21408.4
60°	7900.6	8430.2	9107.7	10918.3	13067.7	15772.0	18935.7	20602.3	21071.5	23727.1	22893.9
62.5°	5056.1	5383.2	6006.3	7711.8	10182.3	14165.8	19395.3	23775.8	23398.1	25997.3	25121.1
65°	3461.6	3671.9	4242.4	5200.2	6582.6	10544.5	18164.7	26154.9	27093.3	29595.1	28929.3
67.5°	2515.5	2675.0	3161.8	4000.9	4289.1	6239.9	14095.7	26046.0	30685.4	33302.0	32266.4
70°	1834.0	1946.9	2355.8	3161.8	3300.0	3471.4	8539.2	22140.4	30607.5	34287.3	33047.0
72.5°	1358.9	1436.8	1711.3	2453.1	2671.1	2344.1	4226.8	16091.3	26301.0	31012.5	30017.6
75°	983.2	1041.6	1244.0	1876.9	2137.7	1785.3	2108.5	9403.7	18345.9	21815.3	21990.5
77.5°	751.5	796.3	928.6	1374.5	1711.3	1339.5	1308.3	4326.0	8698.9	8741.7	9232.3
80°	603.5	632.7	704.8	967.6	1312.2	1002.7	852.8	1746.4	2749.0	2326.5	2441.4
82.5°	443.9	492.6	595.7	679.5	938.4	691.2	519.8	881.9	1045.5	899.4	907.2
85°	253.1	286.2	360.2	486.8	599.6	422.5	297.9	391.3	486.8	399.1	356.3
87.5°	89.6	116.8	126.6	190.8	260.9	175.2	114.9	113.0	159.7	118.8	99.3
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°	5379.3	5379.3	5379.3	5379.3	5379.3	5379.3	5379.3	5379.3	5379.3	5379.3	5379.3
2.5°	5418.3	5408.5	5369.6	5317.1	5262.6	5210.0	5192.4	5155.4	5130.1	5116.5	5132.1
5°	5527.3	5496.2	5404.6	5287.9	5165.2	5032.8	4939.4	4853.7	4791.4	4732.9	4756.3
7.5°	5683.1	5628.6	5470.8	5266.4	5048.3	4828.4	4664.8	4540.2	4456.5	4402.0	4413.6
10°	5864.1	5780.4	5539.0	5233.3	4896.5	4581.1	4388.3	4281.3	4228.7	4199.5	4207.3
12.5°	6072.4	5953.7	5609.1	5157.4	4664.8	4304.7	4172.3	4141.1	4143.0	4145.0	4148.9
15°	6329.5	6163.9	5665.6	4992.0	4363.0	4092.4	4069.0	4119.7	4172.3	4197.6	4195.6
17.5°	6619.6	6385.9	5675.3	4719.3	4067.1	3956.2	4030.1	4139.2	4219.0	4254.1	4261.8
20°	6931.0	6611.8	5605.2	4333.8	3823.8	3845.2	3977.5	4117.7	4205.4	4250.2	4261.8
22.5°	7287.3	6853.2	5437.7	3928.9	3625.1	3724.4	3880.2	4016.5	4108.0	4152.8	4164.5
25°	7694.3	7123.7	5174.9	3588.2	3453.8	3588.2	3743.9	3856.9	3930.9	3971.7	3983.4
27.5°	8145.9	7406.1	4824.5	3317.5	3303.9	3448.0	3576.5	3664.1	3703.0	3734.2	3745.9
30°	8599.5	7663.1	4400.0	3113.1	3173.5	3309.7	3401.3	3440.2	3451.9	3457.7	3471.4
32.5°	9090.2	7885.0	3954.2	2943.7	3048.9	3175.4	3230.0	3247.5	3193.0	3156.0	3167.7
35°	9684.0	8122.5	3518.1	2809.4	2926.3	3035.2	3052.8	3037.2	2972.9	2897.1	2901.0
37.5°	10418.0	8418.5	3169.6	2714.0	2811.4	2883.4	2862.0	2858.1	2864.0	2774.4	2780.2
40°	11317.4	8803.9	2914.6	2640.0	2717.9	2733.5	2673.1	2706.2	2735.4	2599.1	2603.0
42.5°	12316.2	9269.3	2752.9	2589.4	2640.0	2603.0	2509.6	2546.6	2542.7	2363.5	2361.6
45°	13334.4	9775.5	2696.5	2552.5	2568.0	2494.0	2390.8	2400.5	2318.8	2157.2	2163.1
47.5°	14346.8	10318.7	2731.5	2521.3	2478.4	2394.7	2314.9	2272.0	2151.4	2030.6	2030.6
50°	15339.8	10889.1	2860.1	2459.0	2355.8	2307.1	2248.6	2172.8	2044.3	1941.0	1933.3
52.5°	16260.7	11463.5	3004.1	2355.8	2202.0	2231.2	2194.2	2106.6	1980.0	1874.9	1876.9
55°	17132.9	12037.8	3060.5	2213.7	2057.9	2165.0	2143.6	1981.9	1830.1	1744.4	1736.7
57.5°	18083.0	12729.0	2998.2	2032.6	1941.0	2089.1	2007.3	1828.2	1740.6	1676.3	1670.4
60°	19399.1	13813.4	2864.0	1808.7	1830.1	1976.1	1836.0	1762.0	1666.5	1594.5	1590.6
62.5°	21585.5	15836.2	2647.8	1586.7	1699.7	1808.7	1754.2	1680.2	1582.8	1512.8	1512.8
65°	24817.4	18647.6	2241.0	1413.5	1553.6	1645.1	1666.5	1592.5	1491.4	1417.4	1421.3
67.5°	27543.1	20411.5	1695.8	1269.4	1403.7	1512.8	1573.1	1501.1	1394.0	1321.9	1323.9
70°	27393.2	19130.5	1294.7	1127.3	1271.3	1382.3	1460.2	1403.7	1288.8	1220.7	1226.5
72.5°	24330.6	16003.7	1047.4	983.2	1137.0	1246.0	1339.5	1296.6	1179.9	1113.7	1113.7
75°	17874.7	11360.3	837.2	837.2	969.5	1103.9	1207.1	1179.9	1072.8	1026.0	1012.4
77.5°	7534.6	4766.0	656.1	695.1	806.1	948.1	1076.7	1086.4	992.9	1051.3	954.0
80°	2003.4	1314.2	500.4	547.0	632.7	782.7	936.4	932.5	831.4	776.8	722.3
82.5°	763.2	517.8	356.3	385.5	457.6	599.6	741.8	765.2	663.9	574.3	574.3
85°	294.0	221.9	220.0	231.6	266.7	397.2	560.7	580.2	500.4	424.5	438.1
87.5°	76.0	66.2	81.8	77.9	122.7	212.2	321.2	332.9	305.7	177.1	253.1
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)