

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: P970372

Luminaire Tested: **NAV-SB6B-735-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970372
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-735-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35931.4 lumens
Efficiency: N/A
Efficacy: 163.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - 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



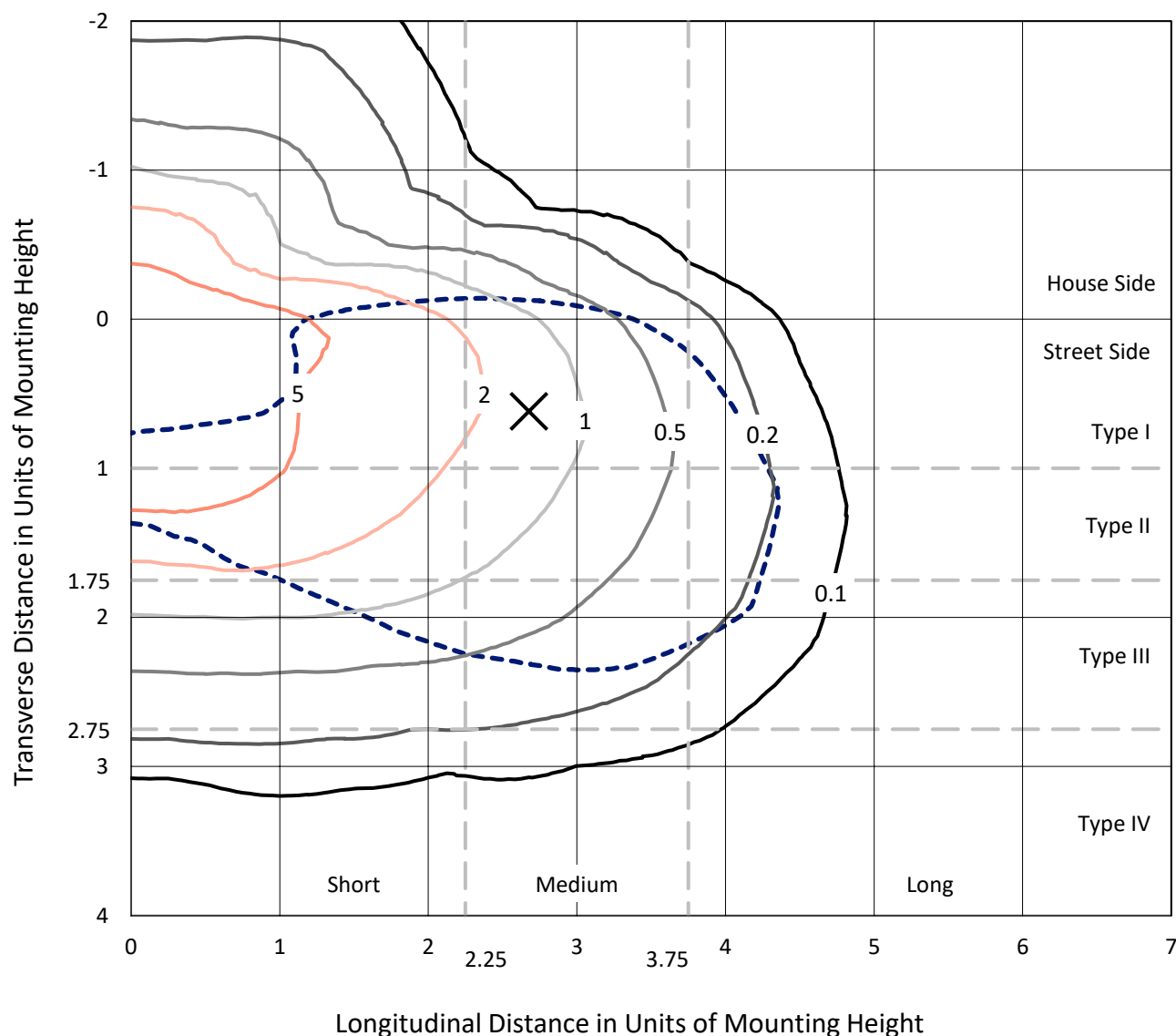
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

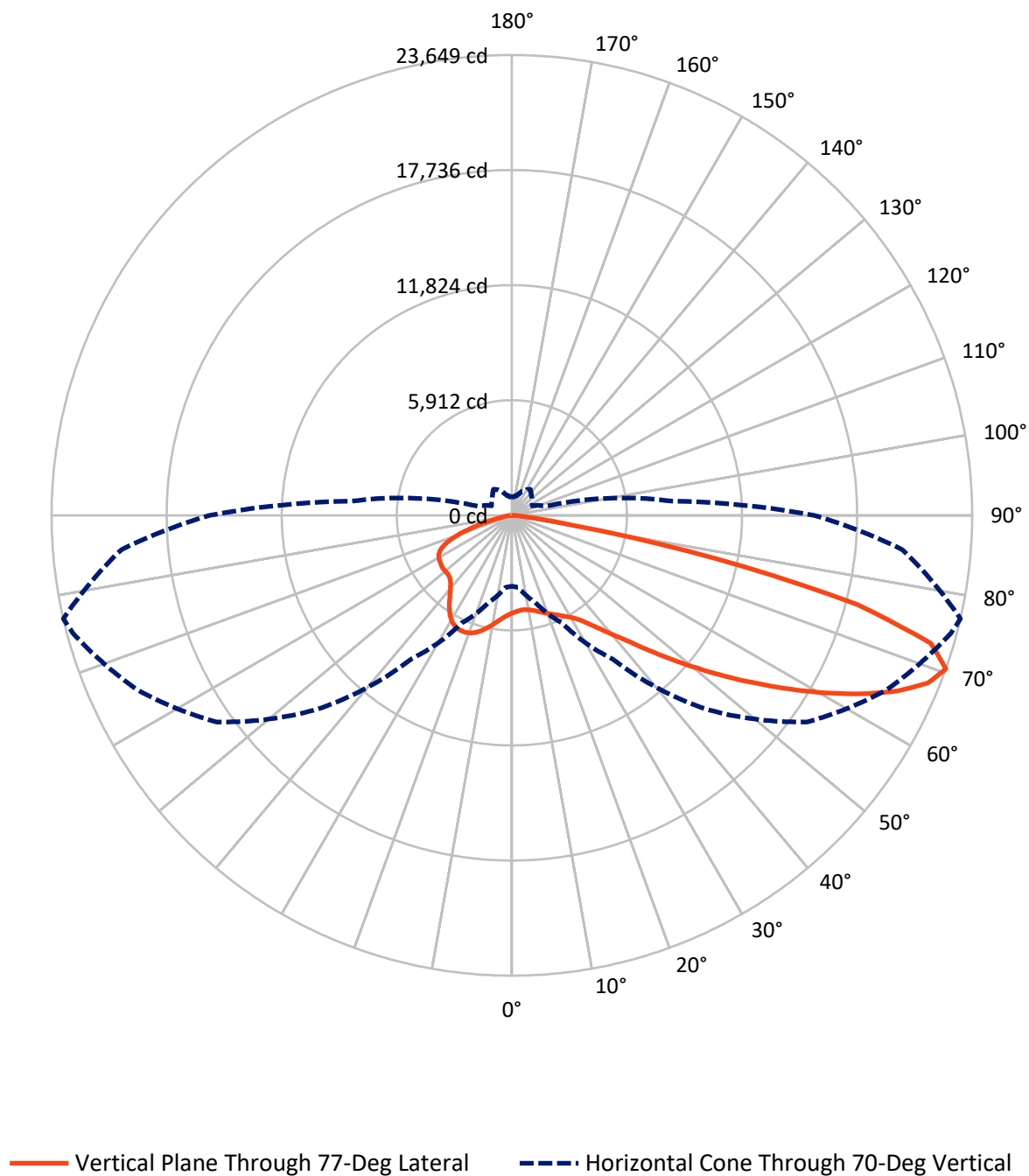
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7868.4	0.0	7868.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	28063.0	0.0	28063.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	35931.4	0.0	35931.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	478.1	1.3
10°-20°	1379.8	3.8
20°-30°	2359.6	6.6
30°-40°	3794.5	10.6
40°-50°	5924.3	16.5
50°-60°	7913.4	22.0
60°-70°	8434.5	23.5
70°-80°	5192.2	14.5
80°-90°	455.0	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°	35931.4	100.0
0°-180°	35931.4	100.0

Coefficient of Utilization



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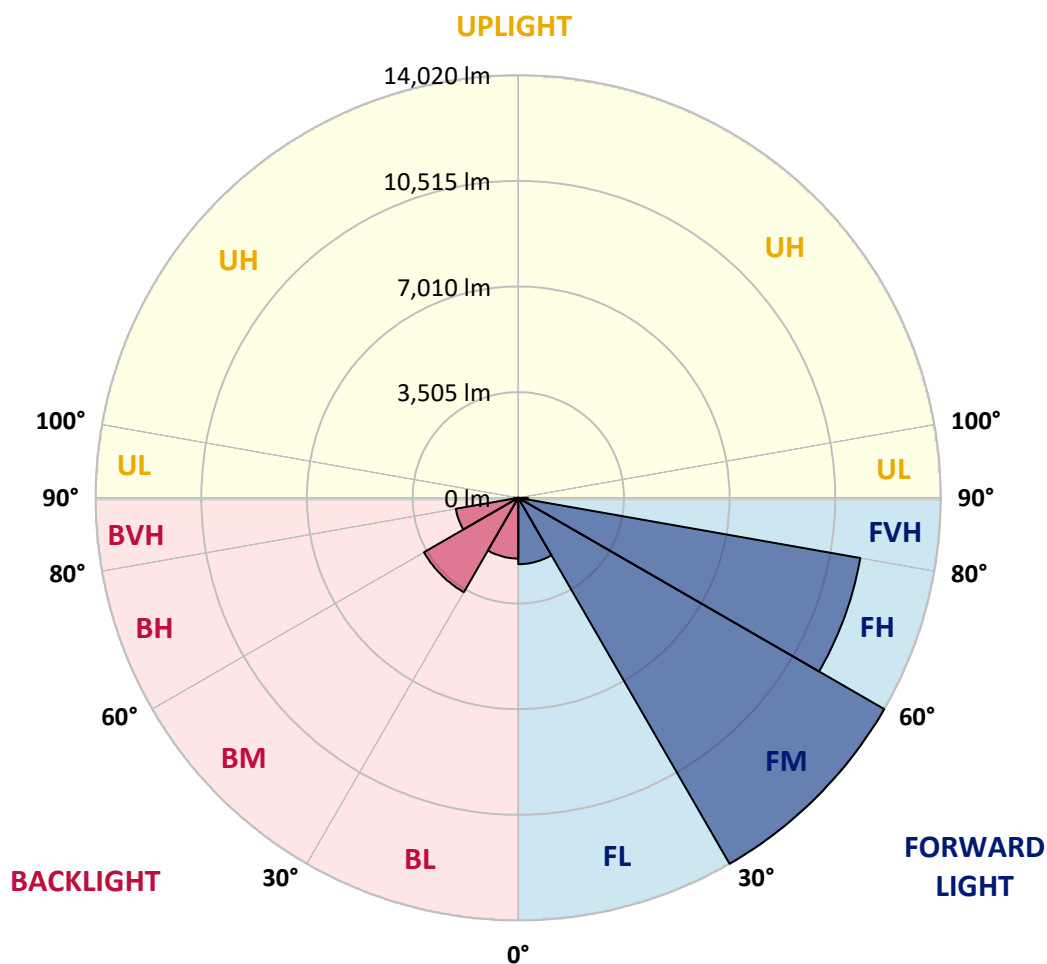
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2201.4	6.1			
FM	(30°-60°)	14019.7	39.0			
FH	(60°-80°)	11523.8	32.1			G4/12000
FVH	(80°-90°)	318.1	0.9			G3/500
BL	(0°-30°)	2016.1	5.6	B3/2500		
BM	(30°-60°)	3612.6	10.1	B3/5000		
BH	(60°-80°)	2102.9	5.9	B3/2500		G3/2500
BVH	(80°-90°)	136.8	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	5012.8	5012.8	5012.8	5012.8	5012.8	5012.8	5012.8	5012.8	5012.8	5012.8	5012.8
2.5°	4620.8	4619.0	4642.8	4650.2	4694.4	4725.7	4784.6	4847.1	4928.1	4937.3	4987.0
5°	4354.0	4354.0	4381.6	4411.0	4468.1	4530.6	4620.8	4729.3	4869.3	4891.3	5014.6
7.5°	4127.6	4142.3	4166.2	4223.3	4289.5	4379.7	4517.7	4672.4	4856.3	4891.3	5090.0
10°	3945.4	3962.0	3991.5	4037.5	4136.8	4262.0	4442.2	4641.0	4887.6	4942.9	5200.4
12.5°	3888.3	3904.9	3921.5	3956.5	4048.4	4195.7	4411.0	4655.8	4963.0	5018.3	5351.3
15°	4020.9	4041.2	4028.2	4019.0	4066.9	4201.2	4425.7	4709.2	5056.9	5136.1	5537.3
17.5°	4326.3	4333.7	4304.3	4217.8	4210.4	4282.1	4495.6	4782.8	5174.7	5261.2	5724.9
20°	4819.5	4806.6	4746.0	4574.8	4477.2	4462.5	4615.3	4893.1	5296.2	5388.1	5927.4
22.5°	5489.4	5474.6	5353.2	5082.7	4865.6	4722.0	4788.3	5036.6	5432.3	5535.4	6124.3
25°	6324.9	6304.6	6126.1	5758.0	5421.3	5066.2	5023.8	5226.3	5599.8	5695.5	6330.4
27.5°	7300.2	7283.5	7090.3	6604.6	6118.7	5537.3	5316.4	5448.9	5774.6	5883.2	6562.3
30°	8349.0	8396.9	8054.7	7532.0	6917.4	6151.8	5710.2	5723.1	6001.0	6098.4	6843.8
32.5°	9582.0	9664.8	9252.6	8590.1	7751.0	6819.8	6207.1	6105.8	6330.4	6411.3	7199.0
35°	10803.9	10897.8	10555.4	9823.1	8856.9	7607.4	6725.9	6545.6	6768.3	6856.6	7670.1
37.5°	11860.2	11985.3	11808.7	11172.0	10040.2	8557.0	7403.2	7062.8	7307.5	7417.9	8303.1
40°	12693.8	12885.2	12872.4	12474.9	11435.1	9709.0	8262.6	7701.3	7977.4	8097.0	9070.4
42.5°	13371.0	13536.7	13680.2	13660.0	12890.7	11017.4	9272.9	8531.3	8741.0	8879.1	9933.5
45°	13838.4	14015.1	14324.3	14657.3	14291.2	12417.8	10430.4	9515.8	9707.2	9915.1	10962.2
47.5°	14256.2	14456.8	14857.9	15386.1	15480.0	13823.8	11698.2	10662.3	10837.0	11052.4	11994.6
50°	14293.0	14465.9	15088.0	15837.0	16324.6	15174.4	13060.0	11948.5	12112.3	12342.3	13100.5
52.5°	13404.1	13676.5	14762.3	15824.1	16712.8	16304.4	14412.6	13286.4	13470.4	13746.5	14245.1
55°	10404.6	10803.9	13807.2	15330.8	16574.9	17034.9	15698.9	14708.9	14944.4	15233.3	15397.1
57.5°	8961.9	9136.6	10960.3	14432.8	15945.5	17224.4	16784.6	16146.1	16525.2	16841.7	16615.4
60°	8054.7	8200.0	9278.4	13036.2	15117.4	16924.5	17623.7	17485.8	18140.9	18518.2	17861.1
62.5°	7083.0	7221.0	8201.8	10884.9	14057.5	16425.8	18153.8	18722.3	19797.1	20209.3	19035.2
65°	6118.7	6236.5	7176.8	9145.9	12710.4	15927.1	18428.0	19791.5	21329.9	21756.9	20010.6
67.5°	5044.0	5141.6	6030.4	7716.0	11072.6	15244.4	18564.1	20632.5	22664.1	23030.3	20492.6
70°	3640.0	3715.4	4633.7	6102.1	9017.0	14070.3	18508.9	21228.8	23356.1	23648.6	20128.3
72.5°	1720.6	1788.7	2867.0	3962.0	6369.0	11784.7	17391.9	20755.8	22653.1	22507.7	17897.9
75°	918.3	977.1	1647.0	2173.3	3363.9	8078.5	14232.2	17879.6	19022.4	18315.7	13227.5
77.5°	622.0	668.0	1019.5	1304.7	1536.6	3835.0	9147.7	12379.1	11909.9	10743.2	6624.8
80°	493.1	541.0	835.5	883.3	743.4	1385.7	3779.8	5730.5	4116.6	3292.2	1884.4
82.5°	379.0	432.4	702.9	640.4	404.9	568.7	1100.4	1812.6	1054.4	802.4	456.3
85°	231.9	288.9	552.1	408.6	228.2	259.4	373.6	504.2	322.1	268.7	163.8
87.5°	117.8	165.6	279.7	149.0	103.0	60.7	99.3	99.3	84.7	73.6	42.3
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°	5012.8	5012.8	5012.8	5012.8	5012.8	5012.8	5012.8	5012.8	5012.8	5012.8	5012.8
2.5°	5031.1	5068.0	5130.5	5189.4	5235.4	5279.6	5323.7	5347.6	5355.0	5384.4	5401.0
5°	5090.0	5158.1	5279.6	5393.7	5465.4	5509.6	5540.9	5559.3	5563.0	5572.2	5586.9
7.5°	5198.6	5307.1	5476.5	5590.6	5644.0	5640.3	5627.4	5581.4	5563.0	5546.4	5550.1
10°	5351.3	5494.9	5702.8	5781.9	5748.8	5660.6	5546.4	5412.1	5349.5	5288.8	5270.3
12.5°	5540.9	5723.1	5927.4	5923.7	5759.9	5533.6	5268.5	5062.5	4931.8	4837.9	4815.9
15°	5771.0	5980.7	6137.1	6012.0	5653.2	5246.5	4858.2	4589.5	4471.8	4368.7	4357.7
17.5°	6008.3	6232.8	6304.6	5984.4	5384.4	4821.4	4381.6	4169.9	4054.0	3998.8	4015.3
20°	6240.2	6462.8	6404.0	5826.1	4976.0	4339.2	3947.3	3831.3	3807.4	3820.3	3814.7
22.5°	6485.0	6683.7	6424.2	5520.6	4455.2	3846.0	3630.8	3634.4	3687.8	3726.5	3735.6
25°	6735.2	6869.6	6370.8	5079.0	3895.7	3483.6	3430.2	3489.1	3594.0	3669.4	3689.6
27.5°	6976.3	7035.2	6254.9	4532.4	3415.4	3224.0	3233.3	3354.7	3513.0	3617.8	3643.7
30°	7248.6	7182.4	6032.2	3917.9	3082.4	3001.4	3078.7	3220.3	3378.6	3472.5	3494.5
32.5°	7555.9	7309.4	5678.9	3349.2	2846.8	2822.8	2949.8	3041.9	3111.8	3139.4	3154.1
35°	7938.7	7487.8	5226.3	2949.8	2635.2	2692.3	2813.7	2767.7	2740.1	2725.4	2740.1
37.5°	8435.5	7728.9	4696.2	2690.4	2464.1	2598.4	2648.1	2504.6	2395.9	2342.6	2355.4
40°	9033.6	8082.2	4186.5	2489.8	2355.4	2517.4	2430.9	2258.0	2119.9	2044.5	2050.0
42.5°	9697.9	8452.2	3757.8	2338.9	2294.8	2451.2	2270.8	2064.8	1842.0	1818.1	1842.0
45°	10395.3	8833.0	3465.1	2223.0	2265.4	2394.1	2178.8	1845.7	1687.5	1785.0	1836.5
47.5°	11092.9	9182.7	3288.5	2136.5	2250.6	2329.7	2097.9	1724.3	1612.0	1753.8	1820.0
50°	11869.4	9495.5	3209.4	2073.9	2234.0	2304.0	1976.4	1693.0	1532.9	1626.8	1696.7
52.5°	12640.5	9738.4	3150.4	2011.4	2210.1	2283.7	1917.5	1656.2	1437.3	1442.7	1481.3
55°	13409.7	9896.7	3086.1	1928.5	2156.7	2239.5	1912.0	1615.7	1365.4	1339.7	1358.1
57.5°	14230.4	9986.9	3006.9	1836.5	2064.8	2127.3	1906.5	1584.4	1343.4	1301.0	1306.6
60°	15065.9	10119.3	2903.8	1724.3	1941.5	1992.9	1893.6	1573.4	1330.4	1258.7	1264.2
62.5°	15814.8	10165.3	2780.6	1617.6	1783.2	1860.5	1866.0	1564.1	1295.5	1172.2	1172.2
65°	16306.2	9966.6	2565.3	1496.1	1612.0	1724.3	1812.6	1532.9	1233.0	1109.7	1109.7
67.5°	16285.9	9399.9	2228.6	1339.7	1446.4	1573.4	1735.3	1479.5	1157.5	1032.4	1037.9
70°	15527.7	8281.0	1801.5	1157.5	1264.2	1411.4	1636.0	1400.4	1067.3	947.7	958.8
72.5°	13317.6	6481.3	1308.4	944.0	1052.6	1243.9	1507.2	1304.7	975.3	872.3	866.7
75°	9513.9	4101.8	887.0	725.1	818.9	1054.4	1347.1	1192.5	890.6	876.0	826.3
77.5°	4860.0	1959.8	587.0	530.0	570.5	831.8	1131.7	1065.5	903.5	723.2	644.1
80°	1580.8	723.2	369.9	360.7	379.0	553.9	876.0	874.1	684.6	491.4	434.3
82.5°	504.2	311.0	241.1	231.9	222.6	347.8	611.0	691.9	461.9	311.0	309.1
85°	200.6	185.8	141.7	130.7	93.9	163.8	320.2	460.0	344.1	224.5	230.0
87.5°	73.6	73.6	38.6	27.6	20.2	55.2	86.5	138.1	196.9	115.9	114.1
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)