

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: P971364

Luminaire Tested: **NAV-SB6D-727-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971364
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-SB6D-727-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60228 lumens
Efficiency: N/A
Efficacy: 136.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

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



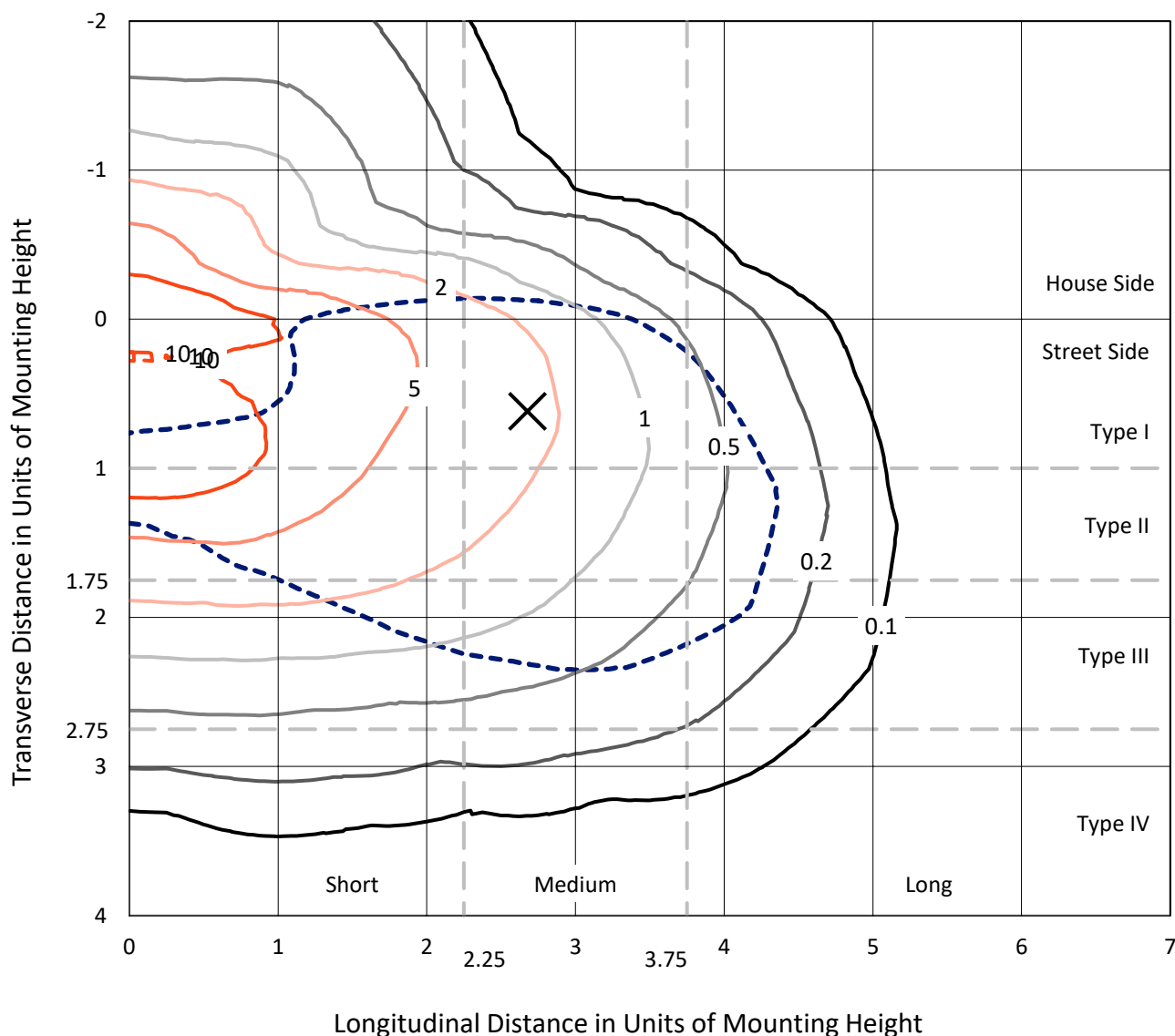
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



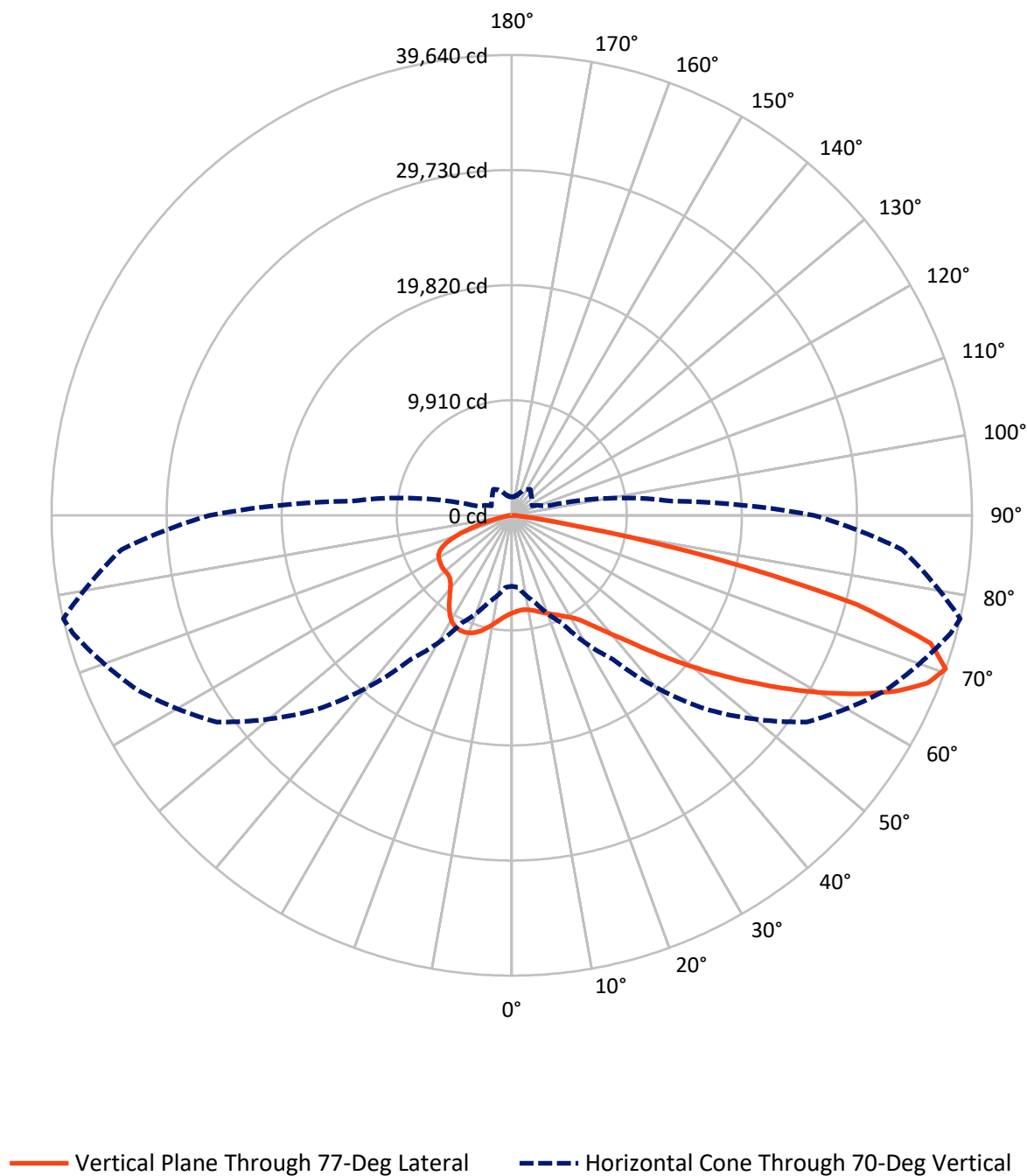
Based on 25 foot mounting height. Maximum calculated value = 15.9 fc

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	13189.0	0.0	13189.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	47039.0	0.0	47039.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	60228.0	0.0	60228.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	801.4	1.3
10°-20°	2312.8	3.8
20°-30°	3955.2	6.6
30°-40°	6360.4	10.6
40°-50°	9930.2	16.5
50°-60°	13264.4	22.0
60°-70°	14137.8	23.5
70°-80°	8703.2	14.5
80°-90°	762.6	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°	60228.0	100.0
0°-180°	60228.0	100.0

Coefficient of Utilization



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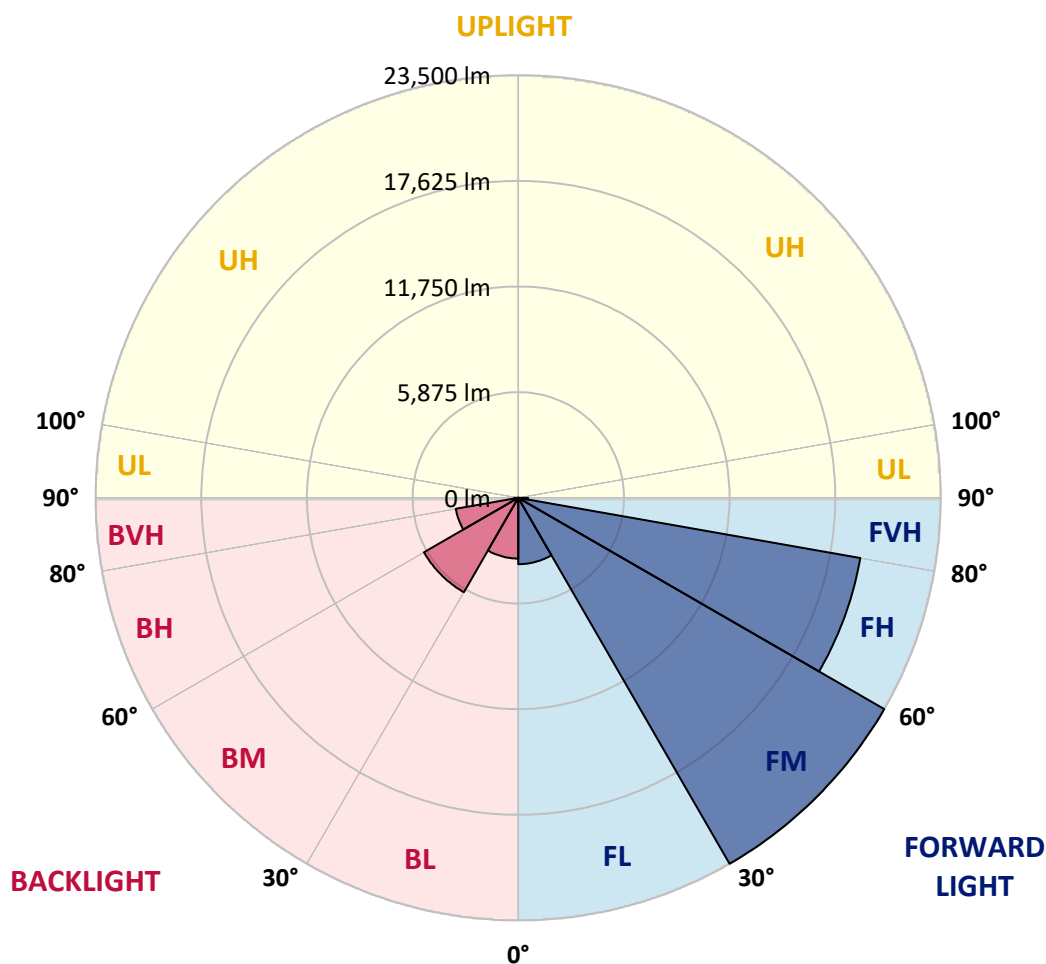
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3689.9	6.1			
FM	(30°-60°)	23499.7	39.0			
FH	(60°-80°)	19316.1	32.1			G5
FVH	(80°-90°)	533.3	0.9			G4/750
BL	(0°-30°)	3379.4	5.6	B4/5000		
BM	(30°-60°)	6055.4	10.1	B4/8500		
BH	(60°-80°)	3524.8	5.9	B4/5000		G4/5000
BVH	(80°-90°)	229.3	0.4			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	8402.3	8402.3	8402.3	8402.3	8402.3	8402.3	8402.3	8402.3	8402.3	8402.3	8402.3
2.5°	7745.3	7742.2	7782.3	7794.7	7868.7	7921.2	8019.9	8124.8	8260.5	8275.8	8359.2
5°	7298.1	7298.1	7344.3	7393.7	7489.4	7594.2	7745.3	7927.4	8161.8	8198.8	8405.4
7.5°	6918.6	6943.4	6983.4	7079.1	7190.1	7341.3	7572.6	7831.7	8140.1	8198.8	8531.9
10°	6613.3	6641.1	6690.4	6767.6	6934.1	7143.8	7446.1	7779.2	8192.6	8285.2	8717.0
12.5°	6517.7	6545.4	6573.2	6631.9	6786.0	7032.8	7393.7	7803.9	8319.1	8411.6	8969.9
15°	6739.8	6773.7	6752.1	6736.7	6816.9	7042.1	7418.3	7893.4	8476.3	8609.0	9281.5
17.5°	7251.8	7264.2	7214.8	7069.8	7057.4	7177.8	7535.6	8016.8	8673.8	8818.8	9596.0
20°	8078.4	8056.9	7955.1	7668.2	7504.7	7480.0	7736.1	8201.8	8877.4	9031.6	9935.4
22.5°	9201.2	9176.6	8973.0	8519.6	8155.6	7914.9	8026.1	8442.4	9105.6	9278.4	10265.5
25°	10601.7	10567.7	10268.6	9651.6	9087.1	8491.8	8420.9	8760.2	9386.3	9546.7	10610.9
27.5°	12236.4	12208.7	11884.9	11070.5	10256.2	9281.5	8911.3	9133.4	9679.4	9861.3	10999.6
30°	13994.6	14074.9	13501.1	12625.1	11594.9	10311.7	9571.4	9593.0	10058.7	10222.2	11471.5
32.5°	16061.3	16200.1	15509.2	14398.8	12992.2	11431.4	10404.3	10234.6	10610.9	10746.6	12066.8
35°	18109.5	18266.8	17693.0	16465.4	14846.0	12751.6	11274.1	10971.8	11345.0	11493.1	12856.5
37.5°	19880.0	20089.8	19793.7	18726.3	16829.4	14343.2	12409.2	11838.5	12248.9	12433.9	13917.6
40°	21277.4	21598.1	21576.6	20910.3	19167.5	16274.1	13849.7	12908.8	13371.5	13572.1	15203.8
42.5°	22412.4	22690.0	22930.7	22896.8	21607.4	18467.3	15543.1	14300.1	14651.7	14883.0	16650.5
45°	23196.0	23492.1	24010.2	24568.5	23954.8	20814.7	17483.3	15950.2	16271.1	16619.7	18374.8
47.5°	23896.1	24232.3	24904.7	25790.0	25947.4	23171.3	19608.6	17872.0	18164.9	18525.8	20105.2
50°	23957.8	24247.7	25290.3	26545.8	27363.2	25435.3	21891.1	20028.1	20302.6	20688.2	21959.0
52.5°	22468.0	22924.4	24744.4	26524.1	28014.0	27329.3	24158.3	22270.6	22579.0	23041.7	23877.6
55°	17440.2	18109.5	23143.5	25697.5	27782.6	28553.8	26314.4	24654.9	25049.8	25534.0	25808.6
57.5°	15021.8	15314.8	18371.7	24192.3	26727.7	28871.5	28134.3	27064.0	27699.4	28229.9	27850.5
60°	13501.1	13744.8	15552.3	21851.1	25339.7	28368.7	29540.9	29309.6	30407.6	31040.0	29938.8
62.5°	11872.5	12103.8	13747.9	18245.2	23563.0	27532.8	30429.2	31382.3	33183.8	33874.7	31906.7
65°	10256.2	10453.6	12029.8	15330.3	21305.0	26696.9	30888.8	33174.5	35753.2	36468.8	33541.6
67.5°	8454.8	8618.3	10108.1	12933.6	18559.8	25552.5	31117.1	34584.1	37989.5	38603.3	34349.7
70°	6101.3	6227.7	7766.9	10228.4	15114.3	23584.5	31024.5	35583.5	39149.3	39639.7	33739.0
72.5°	2884.0	2998.2	4805.7	6641.1	10675.7	19753.6	29152.2	34790.8	37971.0	37727.3	30000.4
75°	1539.2	1637.9	2760.7	3642.8	5638.6	13541.3	23856.1	29969.7	31885.2	30700.7	22171.9
77.5°	1042.6	1119.7	1708.9	2186.9	2575.6	6428.2	15333.4	20749.9	19963.3	18007.7	11104.4
80°	826.7	906.8	1400.4	1480.6	1246.2	2322.6	6335.7	9605.4	6900.2	5518.3	3158.6
82.5°	635.4	724.9	1178.3	1073.4	678.7	953.1	1844.6	3038.3	1767.4	1344.9	765.0
85°	388.7	484.3	925.4	684.8	382.5	434.9	626.2	845.2	539.8	450.4	274.5
87.5°	197.4	277.6	468.8	249.9	172.7	101.8	166.6	166.6	141.9	123.4	70.9
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°	8402.3	8402.3	8402.3	8402.3	8402.3	8402.3	8402.3	8402.3	8402.3	8402.3	8402.3
2.5°	8433.2	8494.9	8599.8	8698.5	8775.5	8849.6	8923.6	8963.7	8976.1	9025.4	9053.2
5°	8531.9	8646.1	8849.6	9040.8	9161.1	9235.1	9287.6	9318.5	9324.6	9340.1	9364.7
7.5°	8713.9	8895.9	9179.7	9370.9	9460.3	9454.2	9432.6	9355.5	9324.6	9296.9	9303.0
10°	8969.9	9210.5	9559.0	9691.7	9636.1	9488.1	9296.9	9071.7	8966.8	8865.0	8834.2
12.5°	9287.6	9593.0	9935.4	9929.2	9654.7	9275.3	8831.1	8485.7	8266.6	8109.3	8072.3
15°	9673.2	10024.8	10287.0	10077.3	9475.8	8794.1	8143.2	7692.9	7495.5	7322.8	7304.3
17.5°	10071.1	10447.4	10567.7	10031.0	9025.4	8081.5	7344.3	6989.6	6795.3	6702.8	6730.6
20°	10459.7	10833.0	10734.3	9765.7	8340.6	7273.4	6616.4	6422.0	6382.0	6403.6	6394.3
22.5°	10870.0	11203.1	10768.2	9253.7	7467.7	6446.7	6085.8	6092.0	6181.5	6246.2	6261.6
25°	11289.5	11514.6	10678.8	8513.4	6530.1	5839.1	5749.6	5848.3	6024.1	6150.6	6184.5
27.5°	11693.6	11792.3	10484.4	7597.3	5724.9	5404.1	5419.6	5623.2	5888.4	6064.2	6107.5
30°	12150.1	12039.0	10111.2	6567.1	5166.6	5030.9	5160.5	5398.0	5663.2	5820.6	5857.6
32.5°	12665.2	12251.9	9519.0	5613.9	4771.8	4731.7	4944.6	5098.8	5216.0	5262.2	5287.0
35°	13306.9	12551.1	8760.2	4944.6	4417.1	4512.8	4716.3	4639.2	4592.9	4568.2	4592.9
37.5°	14139.7	12955.2	7871.8	4509.6	4130.2	4355.4	4438.7	4198.1	4016.1	3926.7	3948.2
40°	15142.1	13547.4	7017.4	4173.4	3948.2	4219.7	4074.7	3784.7	3553.4	3427.0	3436.2
42.5°	16255.7	14167.4	6298.7	3920.5	3846.4	4108.6	3806.3	3460.9	3087.6	3047.5	3087.6
45°	17424.7	14805.9	5808.3	3726.2	3797.1	4013.0	3652.1	3093.9	2828.6	2992.1	3078.4
47.5°	18593.7	15392.0	5512.1	3581.1	3772.4	3905.0	3516.4	2890.2	2702.1	2939.6	3050.6
50°	19895.5	15916.3	5379.5	3476.3	3744.6	3861.9	3312.8	2837.8	2569.5	2726.7	2844.0
52.5°	21187.9	16323.5	5280.8	3371.4	3704.6	3828.0	3214.1	2776.1	2409.1	2418.3	2483.1
55°	22477.2	16588.8	5172.8	3232.6	3615.1	3754.0	3204.9	2708.3	2288.7	2245.6	2276.4
57.5°	23853.0	16739.9	5040.1	3078.4	3460.9	3565.8	3195.6	2655.8	2251.7	2180.8	2190.0
60°	25253.3	16962.0	4867.4	2890.2	3254.2	3340.6	3174.0	2637.3	2230.1	2109.9	2119.1
62.5°	26508.8	17039.1	4660.8	2711.3	2988.9	3118.5	3127.8	2621.8	2171.6	1964.8	1964.8
65°	27332.3	16706.0	4299.9	2507.8	2702.1	2890.2	3038.3	2569.5	2066.7	1860.0	1860.0
67.5°	27298.4	15756.0	3735.4	2245.6	2424.4	2637.3	2908.7	2480.0	1940.2	1730.4	1739.7
70°	26027.5	13880.6	3019.8	1940.2	2119.1	2365.9	2742.2	2347.4	1789.0	1588.5	1607.1
72.5°	22323.0	10863.9	2193.1	1582.4	1764.3	2085.2	2526.2	2186.9	1634.8	1462.1	1452.8
75°	15947.2	6875.5	1486.8	1215.3	1372.7	1767.4	2257.9	1998.7	1492.9	1468.2	1385.0
77.5°	8146.3	3285.0	984.0	888.4	956.2	1394.2	1897.0	1786.0	1514.5	1212.3	1079.6
80°	2649.6	1212.3	620.0	604.5	635.4	928.4	1468.2	1465.1	1147.5	823.6	728.0
82.5°	845.2	521.3	404.1	388.7	373.2	583.0	1024.1	1159.8	774.2	521.3	518.2
85°	336.2	311.5	237.5	219.0	157.3	274.5	536.7	771.1	576.8	376.3	385.6
87.5°	123.4	123.4	64.8	46.2	33.9	92.6	144.9	231.3	330.0	194.3	191.3
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)