

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: P971426

Luminaire Tested: **NAV-SB6D-735-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971426
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-735-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64932.7 lumens
Efficiency: N/A
Efficacy: 147.5 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

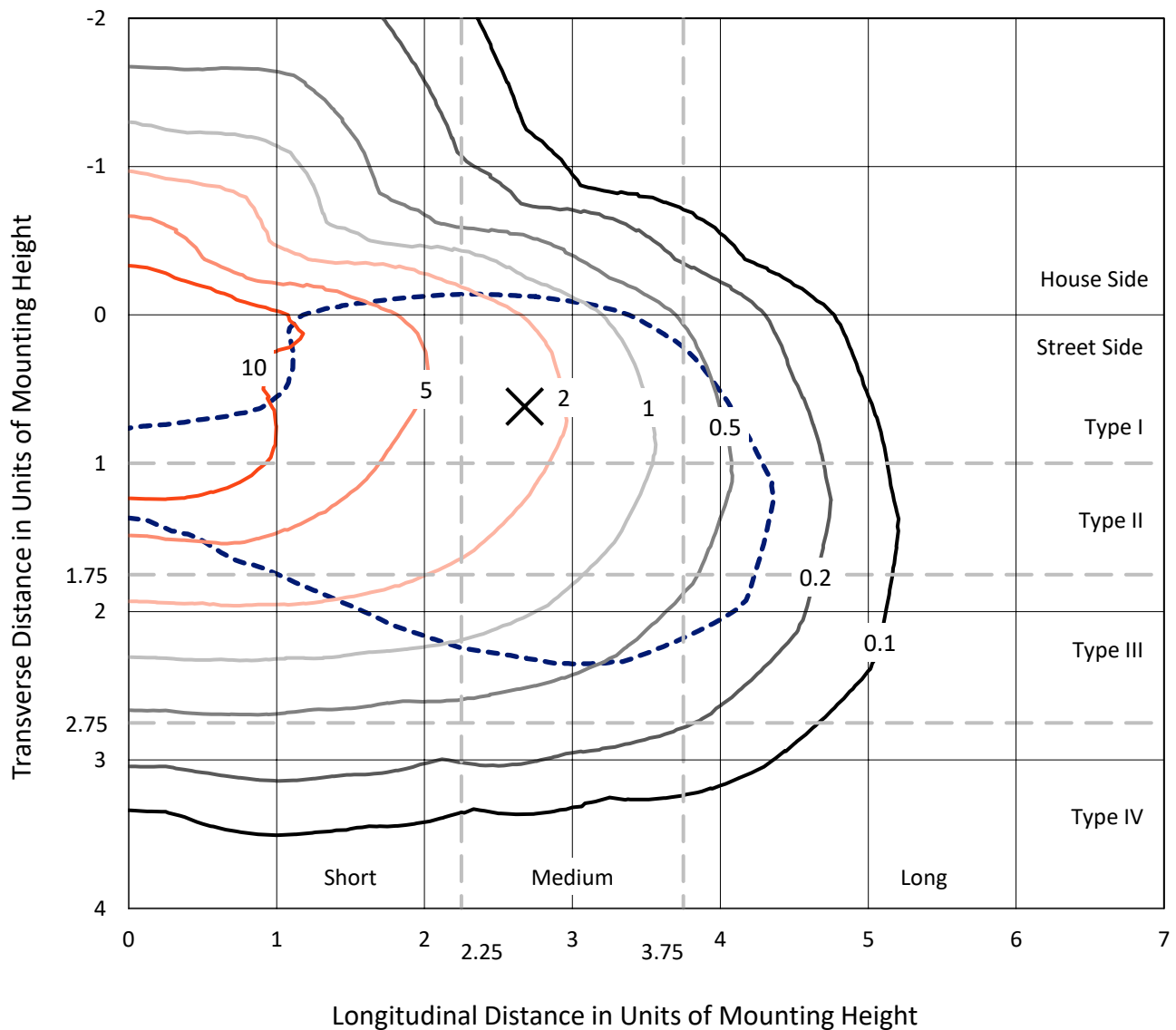


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Iso-Footcandle Lines of Horizontal Illumination

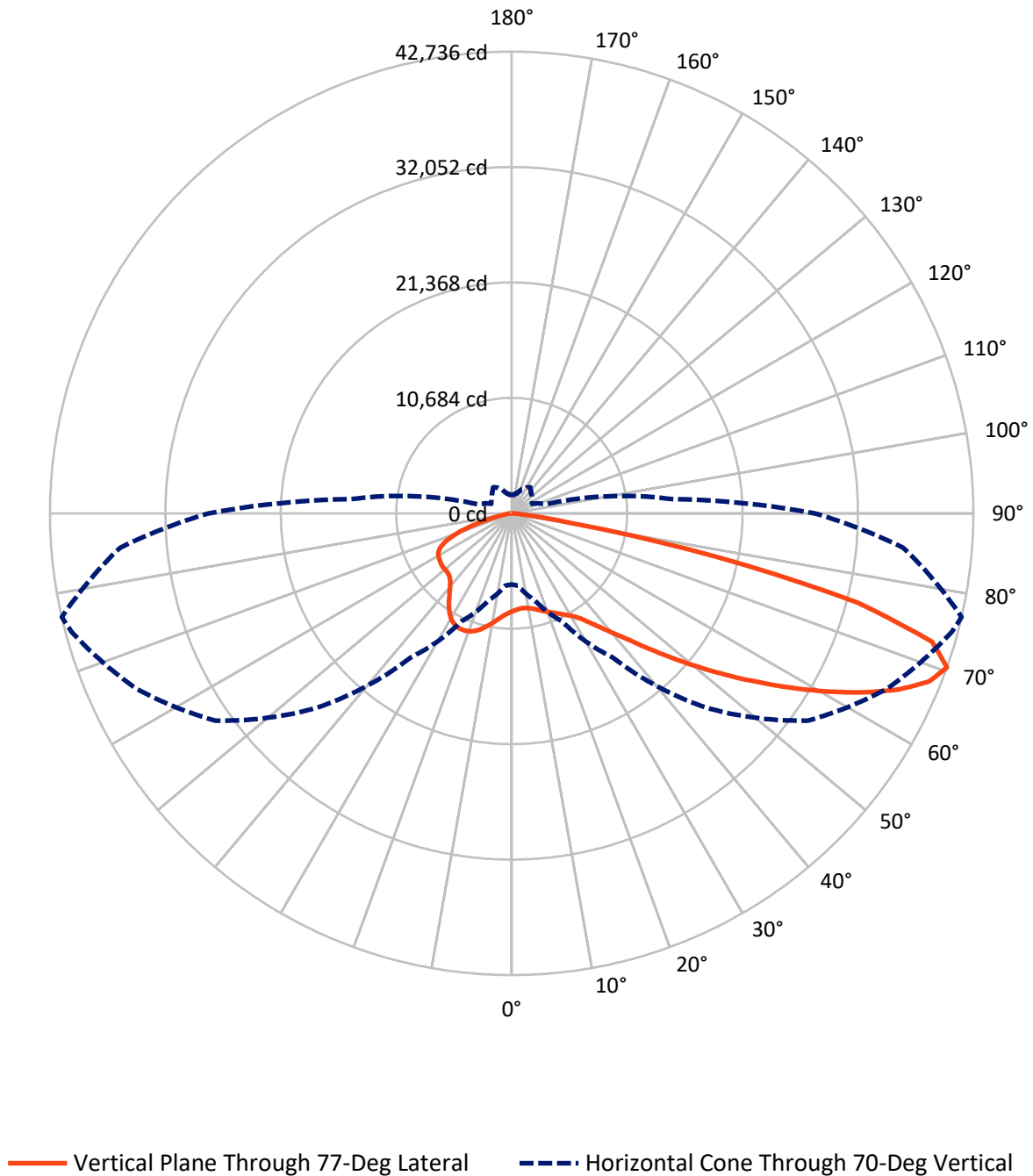
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 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	14219.3	0.0	14219.3
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	50713.5	0.0	50713.5
	% Fixture	78.1	0.0	78.1
Total	Lumens	64932.7	0.0	64932.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	864.0	1.3
10°-20°	2493.5	3.8
20°-30°	4264.2	6.6
30°-40°	6857.2	10.6
40°-50°	10705.9	16.5
50°-60°	14300.6	22.0
60°-70°	15242.2	23.5
70°-80°	9383.0	14.5
80°-90°	822.2	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°	64932.7	100.0
0°-180°	64932.7	100.0

Coefficient of Utilization



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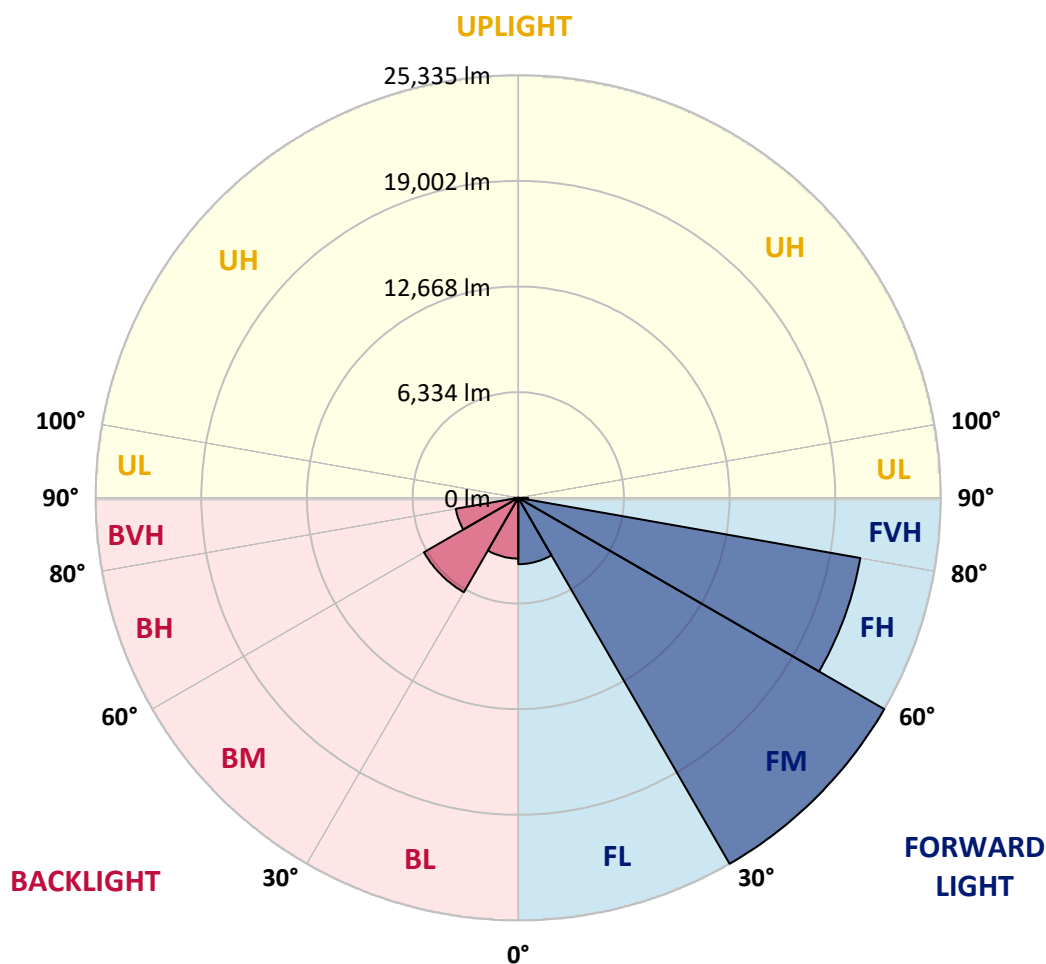
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3978.2	6.1			
FM	(30°-60°)	25335.3	39.0			
FH	(60°-80°)	20825.0	32.1			G5
FVH	(80°-90°)	574.9	0.9			G4/750
BL	(0°-30°)	3643.4	5.6	B4/5000		
BM	(30°-60°)	6528.4	10.1	B4/8500		
BH	(60°-80°)	3800.2	5.9	B4/5000		G4/5000
BVH	(80°-90°)	247.3	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°	9058.7	9058.7	9058.7	9058.7	9058.7	9058.7	9058.7	9058.7	9058.7	9058.7	9058.7
2.5°	8350.4	8347.1	8390.2	8403.6	8483.4	8539.9	8646.4	8759.4	8905.7	8922.3	9012.1
5°	7868.2	7868.2	7918.0	7971.2	8074.3	8187.4	8350.4	8546.6	8799.3	8839.2	9062.0
7.5°	7459.1	7485.8	7528.9	7632.0	7751.8	7914.7	8164.1	8443.4	8776.0	8839.2	9198.3
10°	7129.9	7159.8	7213.0	7296.2	7475.7	7701.8	8027.8	8387.0	8832.5	8932.4	9397.9
12.5°	7026.8	7056.7	7086.6	7149.9	7316.1	7582.1	7971.2	8413.5	8969.0	9068.7	9670.6
15°	7266.2	7302.8	7279.6	7262.9	7349.4	7592.2	7997.9	8510.0	9138.5	9281.5	10006.5
17.5°	7818.3	7831.6	7778.4	7622.1	7608.8	7738.4	8124.3	8643.0	9351.4	9507.7	10345.6
20°	8709.5	8686.3	8576.5	8267.2	8090.9	8064.4	8340.4	8842.6	9570.8	9737.1	10711.5
22.5°	9920.1	9893.4	9673.9	9185.1	8792.7	8533.2	8652.9	9101.9	9816.9	10003.2	11067.3
25°	11429.8	11393.2	11070.6	10405.5	9796.9	9155.2	9078.6	9444.5	10119.5	10292.4	11439.8
27.5°	13192.4	13162.4	12813.2	11935.3	11057.4	10006.5	9607.4	9846.9	10435.4	10631.7	11858.8
30°	15087.9	15174.3	14555.8	13611.4	12500.6	11117.3	10319.1	10342.4	10844.5	11020.8	12367.5
32.5°	17315.9	17465.6	16720.7	15523.5	14007.0	12324.4	11217.0	11034.0	11439.8	11586.1	13009.4
35°	19524.1	19693.7	19075.1	17751.6	16005.7	13747.7	12154.8	11828.9	12231.2	12390.9	13860.8
37.5°	21433.0	21659.1	21339.9	20189.2	18144.0	15463.7	13378.5	12763.3	13205.6	13405.2	15004.8
40°	22939.4	23285.2	23262.0	22543.6	20664.7	17545.4	14931.6	13917.2	14416.1	14632.3	16391.5
42.5°	24163.2	24462.5	24721.9	24685.3	23295.3	19909.9	16757.3	15417.1	15796.2	16045.7	17951.1
45°	25007.8	25327.1	25885.9	26487.7	25826.0	22440.6	18849.0	17196.2	17542.1	17917.9	19810.1
47.5°	25762.8	26125.3	26850.2	27804.7	27974.2	24981.3	21140.3	19268.1	19584.0	19973.0	21675.7
50°	25829.3	26141.9	27265.9	28619.4	29500.6	27422.2	23601.2	21592.5	21888.6	22304.2	23674.3
52.5°	24223.1	24715.2	26677.3	28596.2	30202.3	29464.0	26045.5	24010.2	24342.8	24841.6	25742.9
55°	18802.5	19524.1	24951.4	27704.9	29953.0	30784.3	28370.0	26580.8	27006.5	27528.6	27824.5
57.5°	16195.3	16511.2	19806.8	26082.0	28815.6	31126.8	30332.0	29178.1	29863.2	30435.1	30026.0
60°	14555.8	14818.5	16767.3	23558.0	27319.1	30584.8	31848.5	31599.1	32783.0	33464.7	32277.5
62.5°	12799.9	13049.4	14821.8	19670.5	25403.6	29683.6	32806.3	33833.8	35775.9	36520.9	34399.1
65°	11057.4	11270.2	12969.5	16527.8	22969.3	28782.3	33301.7	35765.9	38546.0	39317.6	36161.7
67.5°	9115.2	9291.5	10897.7	13943.9	20009.6	27548.6	33547.8	37285.7	40957.1	41618.8	37032.9
70°	6577.8	6714.3	8373.6	11027.5	16295.0	25426.9	33448.0	38363.2	42207.4	42736.2	36374.5
72.5°	3109.3	3232.4	5181.2	7159.8	11509.6	21296.6	31429.5	37508.5	40937.1	40674.4	32344.0
75°	1659.5	1765.9	2976.3	3927.4	6079.1	14599.0	25719.5	32310.8	34375.8	33098.9	23903.8
77.5°	1124.0	1207.1	1842.3	2357.8	2776.8	6930.3	16531.1	22370.7	21522.7	19414.3	11971.9
80°	891.2	977.7	1509.8	1596.2	1343.5	2504.1	6830.6	10355.7	7439.1	5949.3	3405.4
82.5°	685.0	781.5	1270.4	1157.3	731.6	1027.6	1988.7	3275.6	1905.5	1450.0	824.7
85°	419.0	522.1	997.6	738.3	412.4	468.9	675.1	911.2	582.0	485.5	296.0
87.5°	212.8	299.3	505.4	269.4	186.2	109.8	179.6	179.6	152.9	133.0	76.5
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°	9058.7	9058.7	9058.7	9058.7	9058.7	9058.7	9058.7	9058.7	9058.7	9058.7	9058.7
2.5°	9092.0	9158.5	9271.5	9377.9	9461.1	9540.9	9620.8	9663.9	9677.2	9730.4	9760.4
5°	9198.3	9321.5	9540.9	9747.1	9876.8	9956.6	10013.1	10046.4	10053.0	10069.7	10096.2
7.5°	9394.5	9590.8	9896.8	10102.9	10199.4	10192.7	10169.4	10086.3	10053.0	10023.1	10029.7
10°	9670.6	9930.0	10305.8	10448.7	10388.9	10229.3	10023.1	9780.3	9667.3	9557.5	9524.3
12.5°	10013.1	10342.4	10711.5	10704.8	10408.9	9999.8	9520.9	9148.5	8912.4	8742.7	8702.9
15°	10428.9	10807.9	11090.6	10864.5	10216.0	9481.0	8779.3	8293.8	8081.0	7894.8	7874.9
17.5°	10857.8	11263.5	11393.2	10814.6	9730.4	8712.8	7918.0	7535.6	7326.1	7226.4	7256.3
20°	11276.8	11679.3	11572.8	10528.6	8992.2	7841.6	7133.3	6923.8	6880.5	6903.8	6893.8
22.5°	11719.1	12078.3	11609.4	9976.5	8051.1	6950.3	6561.2	6567.9	6664.3	6734.1	6750.8
25°	12171.4	12414.2	11512.9	9178.5	7040.1	6295.2	6198.8	6305.2	6494.7	6631.0	6667.6
27.5°	12607.0	12713.5	11303.4	8190.8	6172.1	5826.3	5842.9	6062.5	6348.4	6538.0	6584.5
30°	13099.2	12979.5	10901.1	7080.0	5570.3	5423.9	5563.6	5819.6	6105.6	6275.3	6315.1
32.5°	13654.5	13209.0	10262.5	6052.4	5144.6	5101.3	5330.8	5497.1	5623.5	5673.4	5699.9
35°	14346.3	13531.5	9444.5	5330.8	4762.2	4865.3	5084.7	5001.6	4951.7	4925.1	4951.7
37.5°	15244.2	13967.2	8486.7	4861.9	4452.9	4695.6	4785.4	4526.0	4329.8	4233.4	4256.6
40°	16325.0	14605.6	7565.5	4499.4	4256.6	4549.3	4393.0	4080.4	3831.0	3694.6	3704.7
42.5°	17525.4	15274.1	6790.7	4226.7	4146.9	4429.5	4103.7	3731.2	3328.9	3285.6	3328.9
45°	18785.9	15962.5	6261.9	4017.2	4093.7	4326.5	3937.4	3335.5	3049.5	3225.8	3318.8
47.5°	20046.2	16594.3	5942.7	3861.0	4067.1	4210.1	3791.1	3116.0	2913.2	3169.2	3288.9
50°	21449.6	17159.6	5799.7	3747.8	4037.2	4163.5	3571.6	3059.5	2770.2	2939.8	3066.1
52.5°	22842.9	17598.6	5693.3	3634.8	3993.9	4127.0	3465.2	2993.0	2597.2	2607.2	2677.0
55°	24233.0	17884.6	5576.9	3485.1	3897.5	4047.1	3455.2	2919.8	2467.5	2420.9	2454.3
57.5°	25716.2	18047.6	5433.9	3318.8	3731.2	3844.3	3445.2	2863.2	2427.6	2351.1	2361.1
60°	27226.0	18287.0	5247.7	3116.0	3508.4	3601.5	3422.0	2843.4	2404.3	2274.7	2284.6
62.5°	28579.5	18370.2	5024.9	2923.1	3222.4	3362.1	3372.0	2826.6	2341.2	2118.4	2118.4
65°	29467.4	18011.0	4635.8	2703.6	2913.2	3116.0	3275.6	2770.2	2228.1	2005.3	2005.3
67.5°	29430.8	16986.7	4027.2	2420.9	2613.9	2843.4	3136.0	2673.7	2091.7	1865.6	1875.5
70°	28060.7	14964.8	3255.7	2091.7	2284.6	2550.7	2956.4	2530.7	1928.8	1712.7	1732.6
72.5°	24066.8	11712.5	2364.5	1706.0	1902.2	2248.0	2723.6	2357.8	1762.5	1576.2	1566.3
75°	17192.9	7412.6	1602.9	1310.3	1479.9	1905.5	2434.3	2155.0	1609.6	1582.9	1493.1
77.5°	8782.7	3541.7	1060.9	957.8	1030.9	1503.2	2045.2	1925.5	1632.8	1307.0	1163.9
80°	2856.6	1307.0	668.4	651.8	685.0	1001.0	1582.9	1579.6	1237.1	888.0	784.8
82.5°	911.2	562.0	435.6	419.0	402.4	628.5	1104.0	1250.4	834.7	562.0	558.7
85°	362.4	335.9	256.0	236.2	169.6	296.0	578.6	831.4	621.9	405.7	415.7
87.5°	133.0	133.0	69.8	49.9	36.6	99.7	156.3	249.4	355.9	209.5	206.2
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)