

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: P970000

Luminaire Tested: **NAV-SB6A-830-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970000
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-SB6A-830-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25719.3 lumens
Efficiency: N/A
Efficacy: 150.5 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): 170.9
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

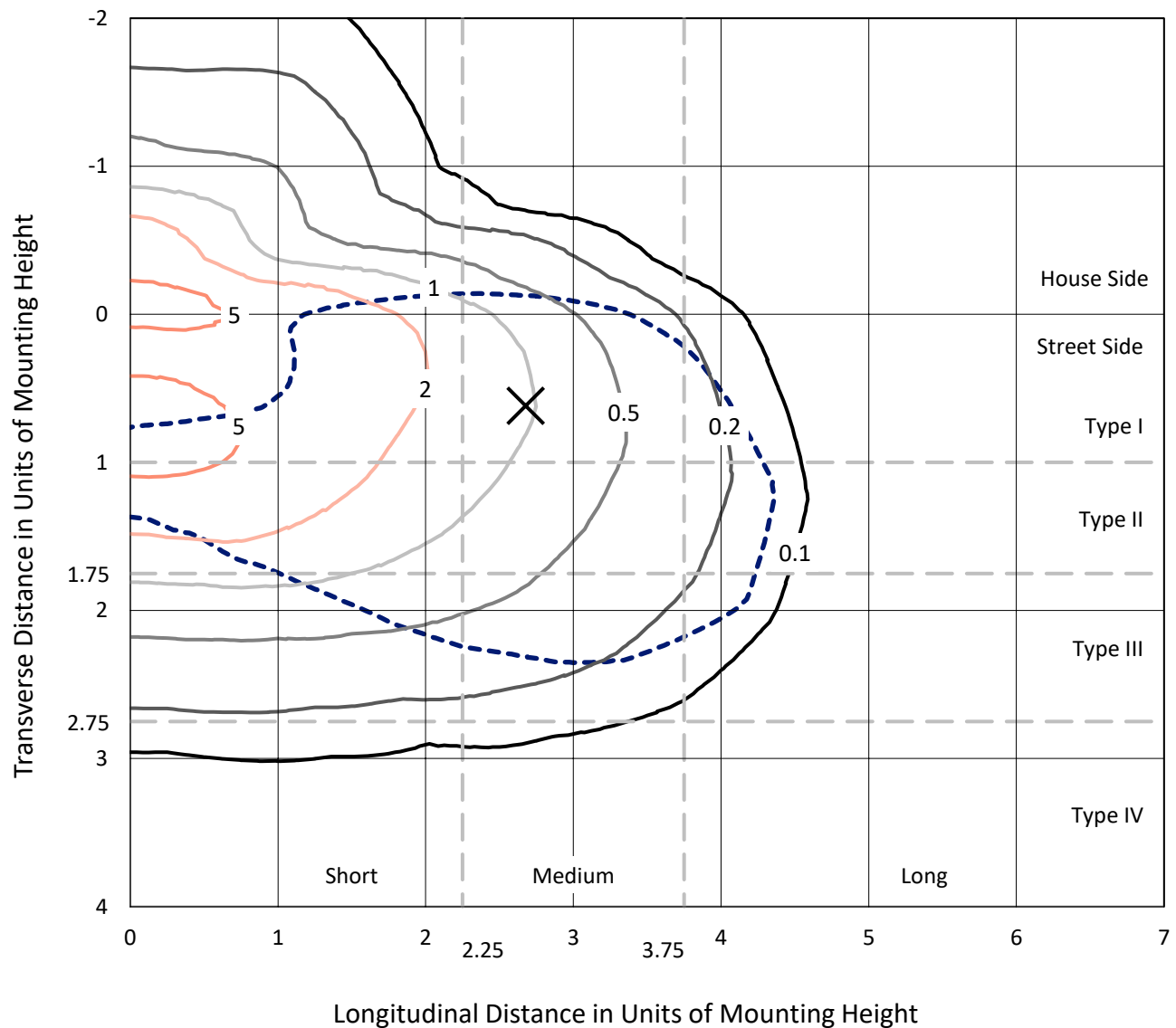


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

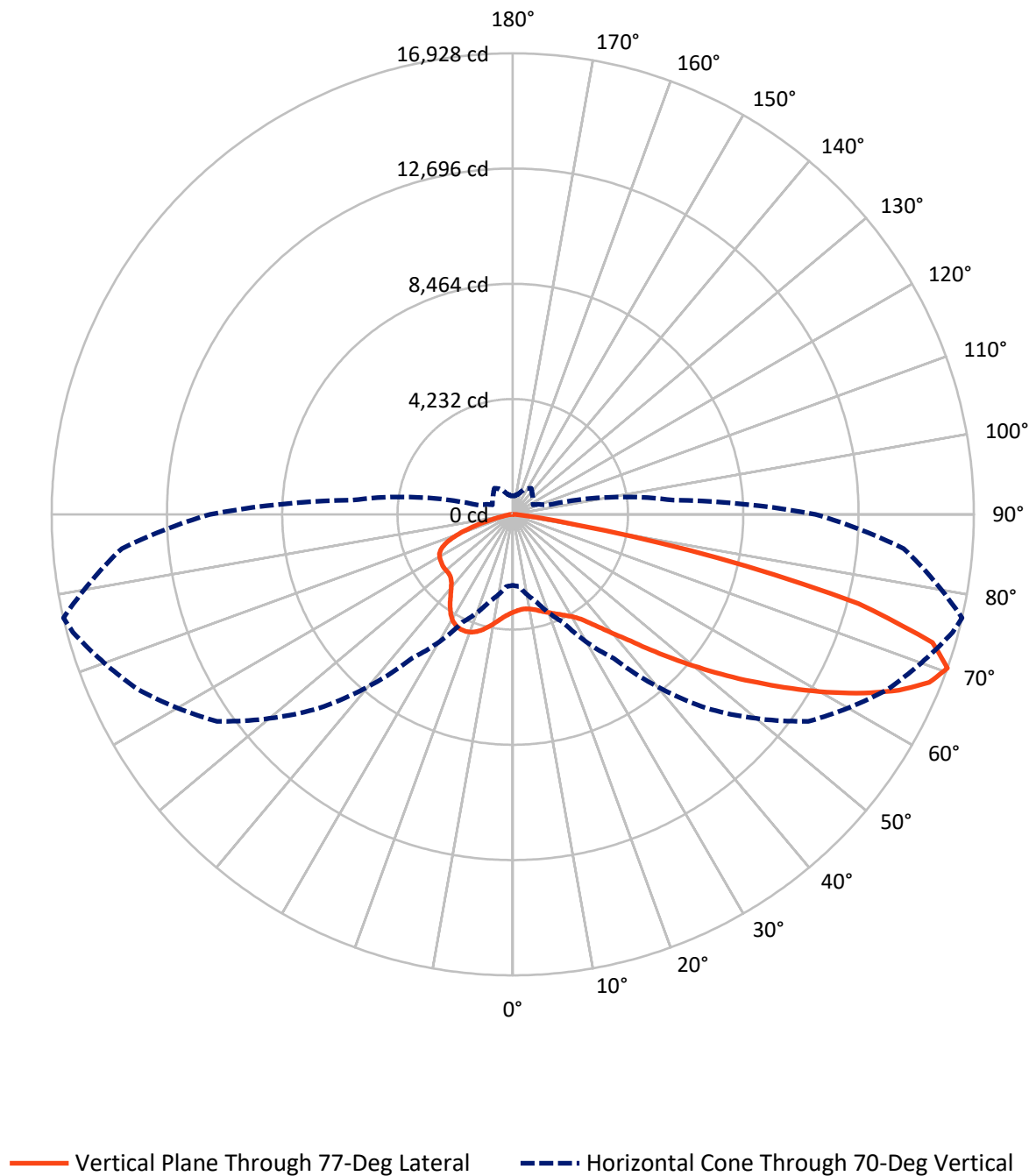


Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5632.1	0.0	5632.1
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	20087.2	0.0	20087.2
	% Fixture	78.1	0.0	78.1
Total	Lumens	25719.3	0.0	25719.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.2	1.3
10°-20°	987.6	3.8
20°-30°	1689.0	6.6
30°-40°	2716.1	10.6
40°-50°	4240.5	16.5
50°-60°	5664.3	22.0
60°-70°	6037.3	23.5
70°-80°	3716.5	14.5
80°-90°	325.7	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°	25719.3	100.0
0°-180°	25719.3	100.0

Coefficient of Utilization



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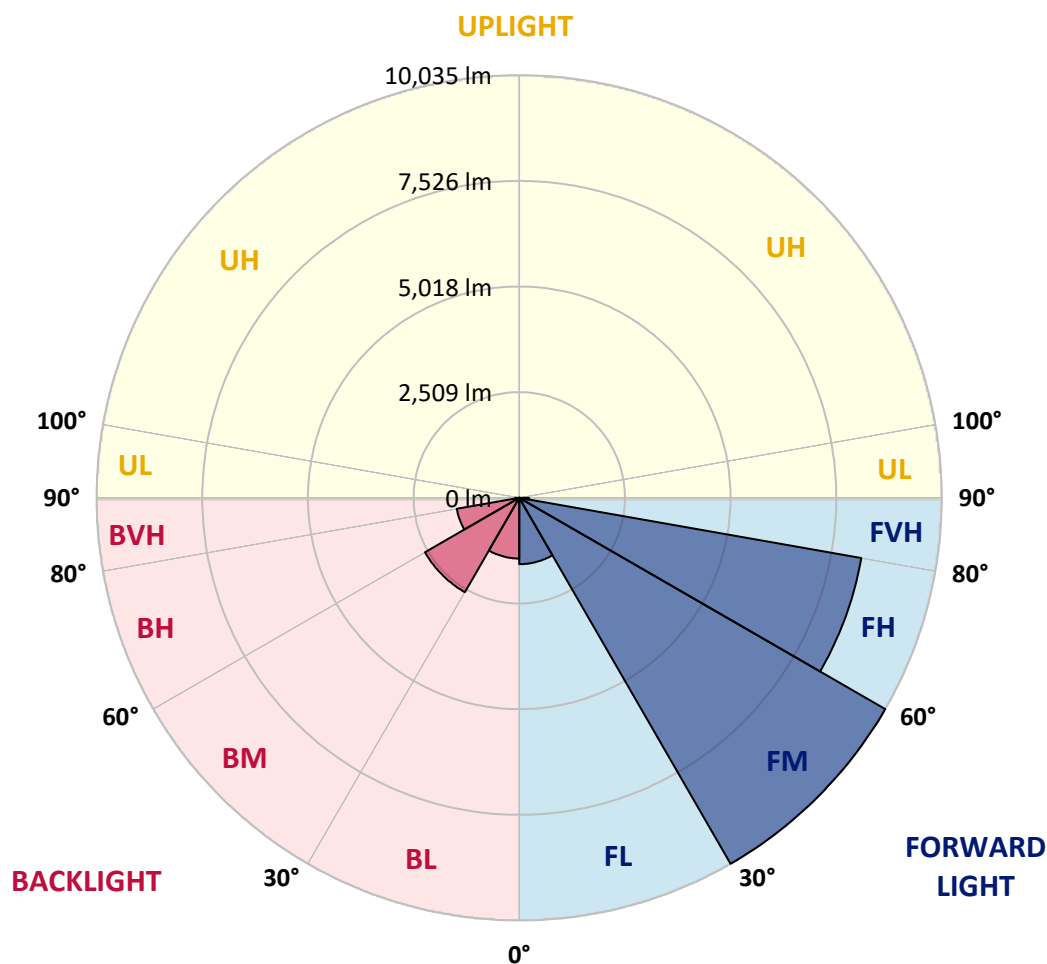
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1575.7	6.1			
FM	(30°-60°)	10035.1	39.0			
FH	(60°-80°)	8248.6	32.1			G4/12000
FVH	(80°-90°)	227.7	0.9			G3/500
BL	(0°-30°)	1443.1	5.6	B3/2500		
BM	(30°-60°)	2585.8	10.1	B3/5000		
BH	(60°-80°)	1505.2	5.9	B3/2500		G3/2500
BVH	(80°-90°)	97.9	0.4			G1/100
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°	3588.1	3588.1	3588.1	3588.1	3588.1	3588.1	3588.1	3588.1	3588.1	3588.1	3588.1
2.5°	3307.5	3306.2	3323.4	3328.6	3360.2	3382.6	3424.7	3469.5	3527.4	3534.1	3569.7
5°	3116.5	3116.5	3136.3	3157.3	3198.2	3243.0	3307.5	3385.3	3485.3	3501.1	3589.3
7.5°	2954.5	2965.0	2982.1	3023.0	3070.4	3135.0	3233.8	3344.4	3476.1	3501.1	3643.4
10°	2824.1	2836.0	2857.0	2890.0	2961.1	3050.6	3179.8	3322.0	3498.5	3538.0	3722.4
12.5°	2783.3	2795.1	2807.0	2832.0	2897.9	3003.2	3157.3	3332.6	3552.5	3592.0	3830.4
15°	2878.1	2892.5	2883.3	2876.8	2911.0	3007.1	3167.9	3370.7	3619.7	3676.4	3963.5
17.5°	3096.7	3102.1	3080.9	3019.0	3013.8	3065.2	3218.0	3423.4	3704.0	3765.8	4097.8
20°	3449.7	3440.5	3397.1	3274.6	3204.8	3194.2	3303.6	3502.4	3791.0	3856.8	4242.7
22.5°	3929.2	3918.7	3831.8	3638.1	3482.7	3379.9	3427.4	3605.2	3888.4	3962.1	4383.7
25°	4527.2	4512.8	4385.0	4121.5	3880.5	3626.2	3596.0	3740.8	4008.3	4076.7	4531.2
27.5°	5225.3	5213.6	5075.2	4727.5	4379.7	3963.5	3805.4	3900.2	4133.4	4211.1	4697.2
30°	5976.2	6010.4	5765.4	5391.3	4951.4	4403.4	4087.3	4096.5	4295.5	4365.3	4898.7
32.5°	6858.7	6917.9	6622.9	6148.8	5548.1	4881.6	4443.0	4370.5	4531.2	4589.1	5152.9
35°	7733.3	7800.6	7555.5	7031.3	6339.7	5445.3	4814.4	4685.3	4844.7	4907.9	5490.1
37.5°	8489.5	8578.9	8452.6	7996.7	7186.7	6125.0	5299.1	5055.4	5230.7	5309.7	5943.3
40°	9086.1	9223.1	9213.8	8929.4	8185.1	6949.6	5914.2	5512.6	5710.1	5795.8	6492.6
42.5°	9570.8	9689.4	9792.1	9777.7	9227.0	7886.1	6637.4	6106.5	6256.7	6355.5	7110.3
45°	9905.4	10031.9	10253.2	10491.6	10229.4	8888.5	7465.9	6811.3	6948.3	7097.1	7846.6
47.5°	10204.4	10348.0	10635.2	11013.2	11080.4	9894.8	8373.5	7631.9	7757.0	7911.2	8585.6
50°	10230.7	10354.6	10799.8	11335.9	11685.0	10861.7	9348.2	8552.6	8669.9	8834.5	9377.2
52.5°	9594.5	9789.5	10566.6	11326.7	11962.9	11670.4	10316.4	9510.3	9642.0	9839.6	10196.5
55°	7447.5	7733.3	9883.0	10973.6	11864.1	12193.4	11237.1	10528.5	10697.0	10903.8	11021.1
57.5°	6414.8	6539.9	7845.2	10330.9	11413.6	12329.1	12014.2	11557.2	11828.5	12055.1	11893.1
60°	5765.4	5869.5	6641.4	9331.1	10820.8	12114.4	12614.9	12516.1	12985.0	13255.1	12784.8
62.5°	5070.0	5168.8	5870.8	7791.3	10062.1	11757.4	12994.2	13401.3	14170.5	14465.6	13625.2
65°	4379.7	4464.0	5137.1	6546.6	9098.0	11400.5	13190.5	14166.6	15267.8	15573.3	14323.4
67.5°	3610.5	3680.3	4316.5	5523.0	7925.6	10911.7	13288.0	14768.5	16222.8	16484.9	14668.5
70°	2605.4	2659.5	3316.7	4367.8	6454.3	10071.3	13248.5	15195.3	16718.1	16927.5	14407.6
72.5°	1231.6	1280.3	2052.3	2836.0	4558.9	8435.4	12448.9	14856.8	16214.9	16110.7	12811.2
75°	657.3	699.5	1178.9	1555.6	2407.8	5782.5	10187.3	12798.0	13616.0	13110.2	9468.1
77.5°	445.3	478.2	729.7	933.9	1099.8	2745.1	6547.8	8860.8	8524.9	7689.9	4742.0
80°	353.0	387.2	598.0	632.2	532.2	991.9	2705.6	4101.7	2946.6	2356.5	1348.8
82.5°	271.3	309.5	503.2	458.4	289.8	407.0	787.7	1297.4	754.8	574.3	326.7
85°	165.9	206.8	395.1	292.4	163.4	185.7	267.4	360.9	230.5	192.3	117.3
87.5°	84.3	118.6	200.2	106.7	73.8	43.5	71.1	71.1	60.6	52.7	30.3
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°	3588.1	3588.1	3588.1	3588.1	3588.1	3588.1	3588.1	3588.1	3588.1	3588.1	3588.1
2.5°	3601.2	3627.6	3672.4	3714.5	3747.5	3779.1	3810.6	3827.8	3833.1	3854.1	3866.0
5°	3643.4	3692.2	3779.1	3860.8	3912.1	3943.7	3966.1	3979.3	3981.9	3988.5	3999.0
7.5°	3721.2	3798.9	3920.0	4001.7	4039.8	4037.3	4028.0	3995.1	3981.9	3970.0	3972.7
10°	3830.4	3933.2	4082.1	4138.6	4115.0	4051.7	3970.0	3873.9	3829.1	3785.6	3772.5
12.5°	3966.1	4096.5	4242.7	4240.1	4122.9	3960.8	3771.2	3623.7	3530.1	3463.0	3447.2
15°	4130.8	4280.9	4392.8	4303.4	4046.5	3755.4	3477.4	3285.1	3200.8	3127.1	3119.2
17.5°	4300.7	4461.4	4512.8	4283.6	3854.1	3451.1	3136.3	2984.8	2901.8	2862.3	2874.1
20°	4466.6	4626.0	4583.9	4170.3	3561.8	3106.0	2825.4	2742.4	2725.3	2734.5	2730.6
22.5°	4641.8	4784.1	4598.4	3951.6	3189.0	2752.9	2598.9	2601.4	2639.7	2667.4	2673.9
25°	4821.0	4917.1	4560.2	3635.5	2788.5	2493.5	2455.3	2497.4	2572.5	2626.6	2641.0
27.5°	4993.5	5035.7	4477.2	3244.3	2444.7	2307.8	2314.3	2401.3	2514.5	2589.7	2608.1
30°	5188.4	5141.1	4317.8	2804.3	2206.3	2148.4	2203.6	2305.1	2418.4	2485.5	2501.4
32.5°	5408.4	5231.9	4064.9	2397.3	2037.7	2020.6	2111.5	2177.3	2227.4	2247.1	2257.7
35°	5682.4	5359.7	3740.8	2111.5	1886.2	1927.1	2014.0	1981.1	1961.3	1950.8	1961.3
37.5°	6038.1	5532.2	3361.5	1925.8	1763.7	1859.9	1895.4	1792.7	1715.0	1676.8	1686.0
40°	6466.2	5785.2	2996.7	1782.2	1686.0	1802.0	1740.0	1616.2	1517.4	1463.4	1467.4
42.5°	6941.7	6050.0	2689.7	1674.1	1642.6	1754.5	1625.4	1477.9	1318.6	1301.4	1318.6
45°	7440.9	6322.6	2480.3	1591.2	1621.4	1713.7	1559.5	1321.1	1207.9	1277.7	1314.6
47.5°	7940.2	6572.9	2353.8	1529.3	1611.0	1667.6	1501.6	1234.2	1153.8	1255.3	1302.7
50°	8496.0	6796.8	2297.2	1484.5	1599.1	1649.1	1414.7	1211.9	1097.3	1164.4	1214.4
52.5°	9047.9	6970.7	2255.1	1439.7	1582.0	1634.7	1372.6	1185.5	1028.7	1032.7	1060.4
55°	9598.5	7084.0	2209.0	1380.5	1543.8	1603.0	1368.6	1156.5	977.3	958.9	972.1
57.5°	10185.9	7148.5	2152.3	1314.6	1477.9	1522.7	1364.6	1134.2	961.6	931.3	935.2
60°	10784.0	7243.4	2078.6	1234.2	1389.7	1426.5	1355.4	1126.2	952.3	901.0	905.0
62.5°	11320.1	7276.3	1990.3	1157.8	1276.3	1331.7	1335.7	1119.6	927.3	839.1	839.1
65°	11671.8	7134.0	1836.2	1070.9	1153.8	1234.2	1297.4	1097.3	882.5	794.3	794.3
67.5°	11657.3	6728.3	1595.1	958.9	1035.4	1126.2	1242.1	1059.0	828.5	738.9	742.9
70°	11114.6	5927.5	1289.6	828.5	905.0	1010.3	1171.0	1002.3	763.9	678.3	686.2
72.5°	9532.6	4639.3	936.5	675.7	753.5	890.4	1078.8	933.9	698.1	624.3	620.4
75°	6810.0	2936.0	634.9	519.0	586.2	754.8	964.2	853.5	637.6	627.0	591.4
77.5°	3478.7	1402.8	420.1	379.4	408.4	595.4	810.1	762.7	646.8	517.6	461.0
80°	1131.5	517.6	264.8	258.2	271.3	396.5	627.0	625.7	490.1	351.7	310.9
82.5°	360.9	222.6	172.5	165.9	159.4	249.0	437.3	495.3	330.7	222.6	221.3
85°	143.6	133.0	101.5	93.5	67.1	117.3	229.2	329.3	246.3	160.7	164.6
87.5°	52.7	52.7	27.7	19.8	14.5	39.6	61.9	98.8	140.9	83.0	81.7
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)