

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: P971454

Luminaire Tested: **NAV-SB6D-740-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971454
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-SB6D-740-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66305.2 lumens
Efficiency: N/A
Efficacy: 150.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B5 - 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

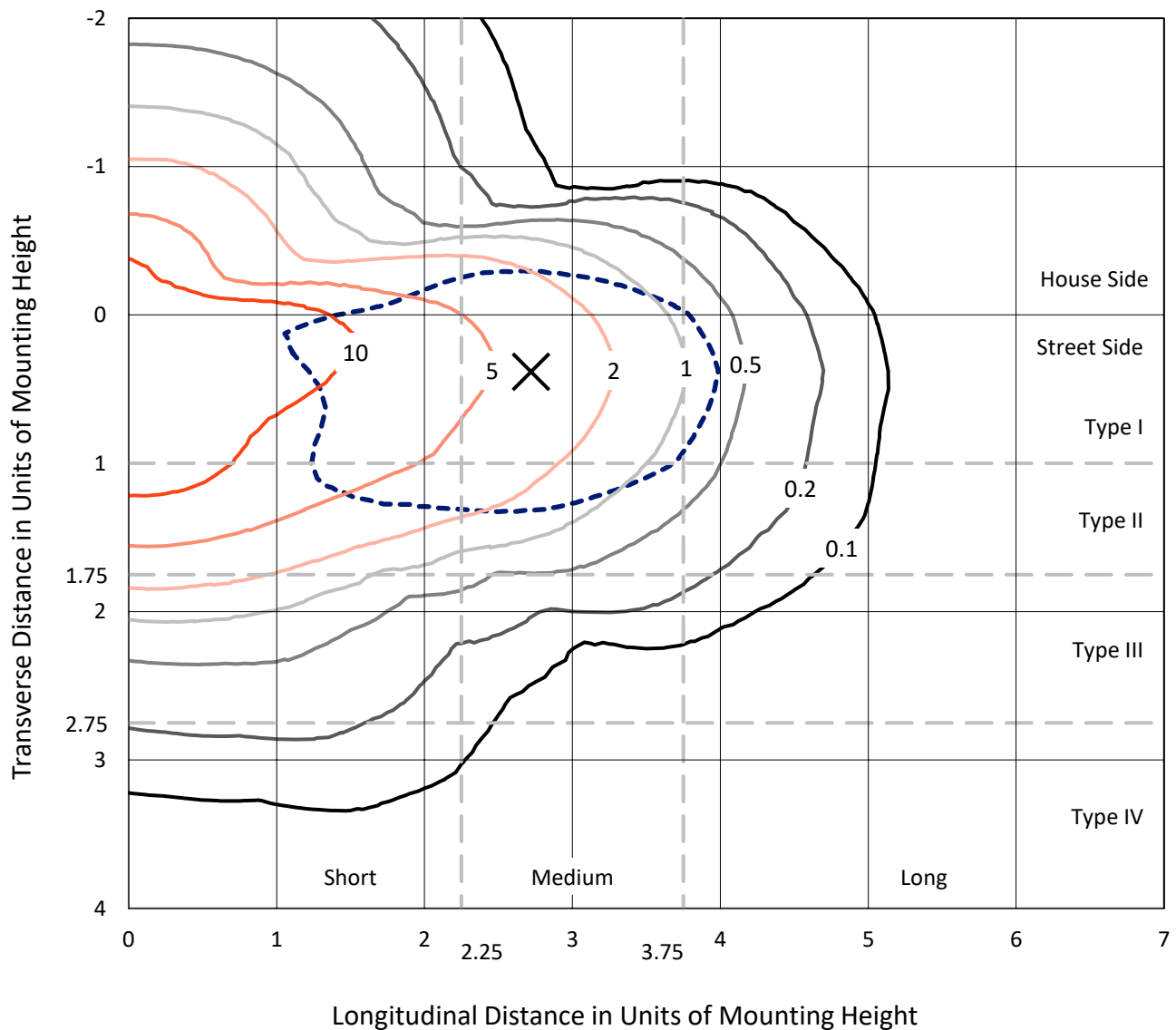


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Iso-Footcandle Lines of Horizontal Illumination

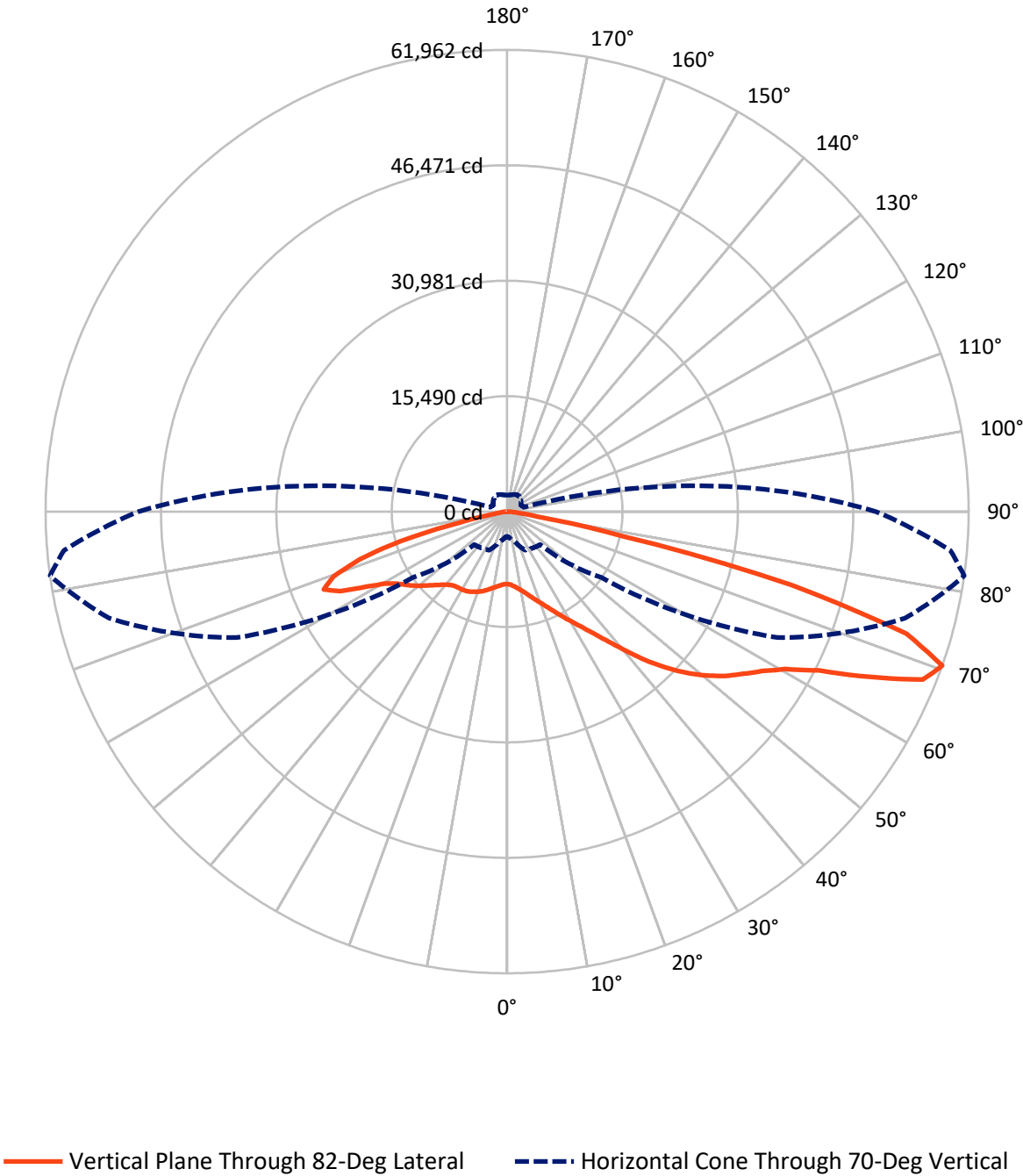
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.7 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	16345.9	0.0	16345.9
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	49959.3	0.0	49959.3
	% Fixture	75.3	0.0	75.3
Total	Lumens	66305.2	0.0	66305.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	917.9	1.4
10°-20°	2637.0	4.0
20°-30°	4411.5	6.7
30°-40°	6891.9	10.4
40°-50°	10976.1	16.6
50°-60°	15274.7	23.0
60°-70°	15978.0	24.1
70°-80°	8351.0	12.6
80°-90°	867.2	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°	66305.2	100.0
0°-180°	66305.2	100.0

Coefficient of Utilization



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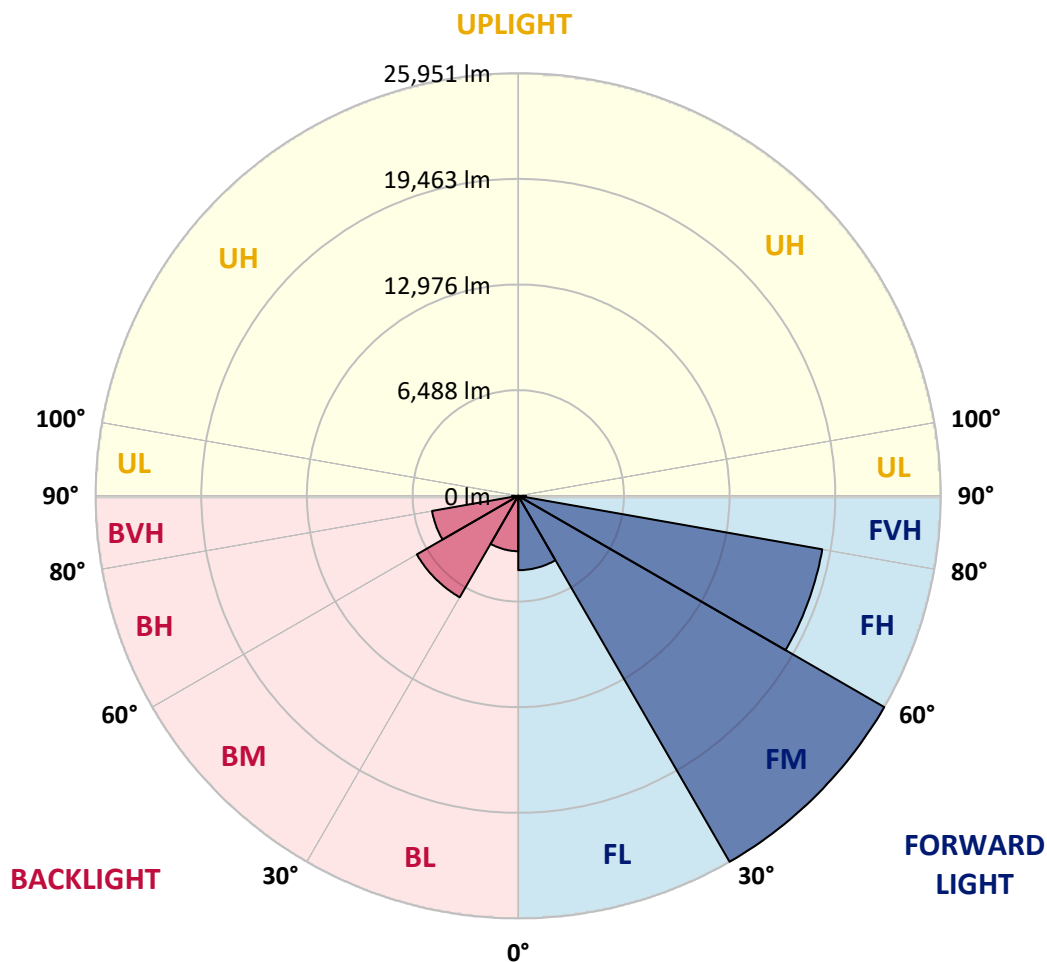
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4565.8	6.9			
FM	(30°-60°)	25951.2	39.1			
FH	(60°-80°)	18956.9	28.6			G5
FVH	(80°-90°)	485.4	0.7			G3/500
BL	(0°-30°)	3400.5	5.1	B4/5000		
BM	(30°-60°)	7191.5	10.8	B4/8500		
BH	(60°-80°)	5372.1	8.1	B5		G5
BVH	(80°-90°)	381.7	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	9721.2	9721.2	9721.2	9721.2	9721.2	9721.2	9721.2	9721.2	9721.2	9721.2	9721.2
2.5°	9953.4	10009.6	9992.1	9974.5	9974.5	9949.9	9946.4	9911.1	9883.0	9837.2	9826.7
5°	10080.1	10139.8	10132.8	10146.9	10192.6	10203.2	10213.7	10192.6	10136.3	10080.1	10055.5
7.5°	9967.4	10034.3	10055.5	10139.8	10280.5	10407.2	10502.3	10540.9	10488.2	10407.2	10368.6
10°	9587.4	9661.3	9735.2	9935.8	10185.6	10484.6	10738.0	10889.3	10878.7	10801.3	10734.4
12.5°	8816.9	8894.3	9052.7	9443.2	9900.6	10428.3	10899.8	11216.5	11325.5	11269.3	11153.1
15°	8201.2	8268.1	8387.7	8788.9	9383.4	10185.6	10959.6	11575.3	11853.3	11821.6	11680.9
17.5°	8183.7	8211.8	8285.7	8475.7	8933.1	9805.7	10896.3	11927.2	12458.5	12454.9	12279.0
20°	8493.3	8503.8	8546.0	8584.8	8845.1	9517.1	10734.4	12219.2	13137.5	13137.5	12947.5
22.5°	8922.5	8915.4	8957.7	8922.5	9049.2	9492.5	10632.4	12476.0	13893.9	13950.2	13711.0
25°	9566.3	9531.2	9520.6	9439.7	9464.3	9721.2	10745.0	12768.0	14791.1	14907.2	14608.1
27.5°	10424.9	10368.6	10329.8	10143.4	10080.1	10192.6	11089.8	13119.9	15790.3	15990.8	15610.9
30°	11543.7	11441.7	11385.4	11061.7	10832.9	10850.5	11610.5	13587.8	16835.2	17158.9	16677.0
32.5°	13070.6	12912.3	12761.0	12229.8	11811.1	11673.8	12282.5	14235.2	17968.1	18485.4	17866.2
35°	14780.5	14653.9	14492.1	13672.3	13028.4	12711.7	13190.2	15139.5	19294.6	20114.4	19308.6
37.5°	16427.2	16318.1	16395.5	15290.7	14460.4	13999.4	14379.4	16353.3	20930.6	22140.9	21117.0
40°	18130.0	18045.5	18056.1	17000.6	16033.0	15515.8	15822.0	17876.7	22805.8	24551.0	23291.4
42.5°	19980.6	19917.3	19706.2	18770.3	17683.2	17201.1	17482.6	19635.8	24818.3	27295.2	25676.9
45°	22053.0	22014.2	21817.2	20744.2	19498.7	18956.9	19336.8	21578.0	26841.4	29877.7	28072.8
47.5°	23843.8	23875.4	23850.8	22946.6	21655.4	20860.2	21314.1	23604.5	28723.7	32305.4	30370.3
50°	24705.8	24871.1	25113.9	24832.5	24030.3	23221.1	23309.0	25560.7	30518.0	34581.8	32572.8
52.5°	24255.4	24568.5	25230.0	25680.4	25990.0	25821.1	25585.3	27502.9	32206.8	36636.5	34655.7
55°	22577.2	23017.0	24114.7	25201.9	26781.6	28009.5	28319.1	29656.1	33853.5	38444.9	36625.9
57.5°	19519.8	20234.0	21219.1	23418.1	26077.9	29068.5	31506.8	32643.2	35598.6	40376.5	38687.7
60°	14277.4	15234.4	16458.8	19730.8	23615.1	28502.1	34219.3	37231.1	38079.0	42878.0	41372.2
62.5°	9137.2	9728.2	10854.0	13936.1	18400.9	25599.5	35049.7	42966.0	42283.4	46980.4	45397.1
65°	6255.6	6635.5	7666.5	9397.5	11895.5	19055.4	32826.1	47265.4	48961.2	53482.2	52279.0
67.5°	4545.7	4834.2	5713.8	7230.1	7750.9	11276.2	25472.8	47068.3	55452.5	60181.2	58309.5
70°	3314.2	3518.3	4257.2	5713.8	5963.6	6273.2	15431.5	40010.6	55311.8	61961.5	59720.3
72.5°	2455.8	2596.5	3092.6	4433.1	4827.1	4236.1	7638.3	29079.0	47529.2	56043.6	54245.8
75°	1776.7	1882.3	2248.2	3391.7	3863.1	3226.3	3810.3	16993.6	33153.3	39423.0	39739.7
77.5°	1358.1	1439.0	1678.2	2484.0	3092.6	2420.6	2364.4	7817.8	15719.9	15797.3	16683.9
80°	1090.7	1143.5	1273.7	1748.6	2371.3	1812.0	1541.0	3156.0	4967.9	4204.4	4412.0
82.5°	802.2	890.1	1076.7	1227.9	1695.9	1249.0	939.4	1593.8	1889.4	1625.4	1639.6
85°	457.4	517.2	650.9	879.6	1083.6	763.5	538.3	707.1	879.6	721.3	643.9
87.5°	161.8	211.2	228.7	344.8	471.5	316.6	207.6	204.1	288.5	214.6	179.5
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°	9721.2	9721.2	9721.2	9721.2	9721.2	9721.2	9721.2	9721.2	9721.2	9721.2	9721.2
2.5°	9791.5	9774.0	9703.6	9608.6	9510.1	9415.0	9383.4	9316.5	9270.8	9246.2	9274.3
5°	9988.5	9932.2	9766.9	9555.8	9334.2	9094.9	8926.0	8771.2	8658.6	8553.1	8595.3
7.5°	10270.0	10171.5	9886.5	9517.1	9123.0	8725.5	8429.9	8204.8	8053.5	7954.9	7976.0
10°	10597.3	10446.0	10009.6	9457.3	8848.6	8278.6	7930.3	7736.8	7641.8	7589.1	7603.1
12.5°	10973.6	10759.1	10136.3	9320.1	8429.9	7779.0	7539.8	7483.5	7487.0	7490.5	7497.6
15°	11438.1	11139.1	10238.4	9021.0	7884.6	7395.6	7353.4	7444.8	7539.8	7585.5	7582.0
17.5°	11962.4	11540.2	10255.9	8528.4	7349.8	7149.3	7282.9	7480.0	7624.3	7687.6	7701.6
20°	12525.3	11948.3	10129.3	7831.8	6910.0	6948.7	7188.0	7441.3	7599.7	7680.5	7701.6
22.5°	13169.1	12384.6	9826.7	7100.0	6551.2	6730.6	7012.0	7258.3	7423.7	7504.6	7525.8
25°	13904.4	12873.6	9351.8	6484.3	6241.5	6484.3	6765.7	6969.8	7103.6	7177.5	7198.5
27.5°	14720.7	13383.7	8718.4	5995.2	5970.6	6231.0	6463.2	6621.5	6691.9	6748.2	6769.3
30°	15540.5	13848.2	7951.4	5625.8	5734.9	5981.2	6146.5	6216.9	6238.0	6248.6	6273.2
32.5°	16427.2	14249.2	7145.8	5319.7	5509.7	5738.5	5837.0	5868.6	5770.0	5703.2	5724.3
35°	17500.2	14678.5	6357.7	5076.9	5288.1	5485.1	5516.8	5488.6	5372.5	5235.3	5242.4
37.5°	18826.6	15213.3	5727.9	4904.5	5080.5	5210.7	5171.9	5164.9	5175.4	5013.6	5024.1
40°	20452.1	15909.9	5267.0	4770.9	4911.6	4939.8	4830.7	4890.5	4943.3	4697.0	4704.0
42.5°	22257.1	16750.9	4974.9	4679.4	4770.9	4704.0	4535.1	4601.9	4595.0	4271.3	4267.8
45°	24097.1	17665.6	4872.8	4612.5	4640.7	4507.0	4320.5	4338.1	4190.3	3898.3	3908.8
47.5°	25926.7	18647.2	4936.2	4556.2	4478.8	4327.5	4183.3	4105.9	3887.7	3669.6	3669.6
50°	27721.0	19678.1	5168.5	4443.7	4257.2	4169.2	4063.7	3926.5	3694.3	3507.8	3493.7
52.5°	29385.2	20716.0	5428.8	4257.2	3979.3	4032.0	3965.2	3806.8	3578.2	3388.1	3391.7
55°	30961.4	21753.9	5530.8	4000.4	3718.9	3912.4	3873.7	3581.7	3307.3	3152.4	3138.3
57.5°	32678.3	23002.9	5418.3	3673.2	3507.8	3775.2	3627.4	3303.7	3145.4	3029.3	3018.7
60°	35056.7	24962.6	5175.4	3268.5	3307.3	3571.1	3317.8	3184.1	3011.7	2881.5	2874.5
62.5°	39007.8	28618.2	4784.9	2867.4	3071.5	3268.5	3170.0	3036.4	2860.4	2733.8	2733.8
65°	44848.3	33698.6	4049.6	2554.3	2807.7	2973.0	3011.7	2878.0	2695.0	2561.4	2568.3
67.5°	49773.9	36886.3	3064.4	2294.0	2536.8	2733.8	2842.8	2712.7	2519.1	2389.0	2392.5
70°	49503.0	34571.2	2339.7	2037.1	2297.4	2498.0	2638.8	2536.8	2329.1	2206.0	2216.6
72.5°	43968.7	28920.8	1892.9	1776.7	2054.7	2251.7	2420.6	2343.3	2132.1	2012.5	2012.5
75°	32301.8	20529.5	1512.9	1512.9	1752.1	1994.9	2181.4	2132.1	1938.6	1854.1	1829.5
77.5°	13616.0	8612.9	1185.7	1256.0	1456.6	1713.4	1945.7	1963.2	1794.4	1899.9	1723.9
80°	3620.4	2374.9	904.3	988.6	1143.5	1414.4	1692.3	1685.3	1502.3	1403.8	1305.3
82.5°	1379.2	935.9	643.9	696.6	826.8	1083.6	1340.5	1382.7	1199.8	1037.9	1037.9
85°	531.3	401.1	397.6	418.7	482.1	717.7	1013.3	1048.5	904.3	767.0	791.6
87.5°	137.2	119.6	147.8	140.7	221.6	383.5	580.6	601.7	552.4	320.2	457.4
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)