

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: P885439

Luminaire Tested: **NAV-SB6D-722-U-T3**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885439
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-722-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49252 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

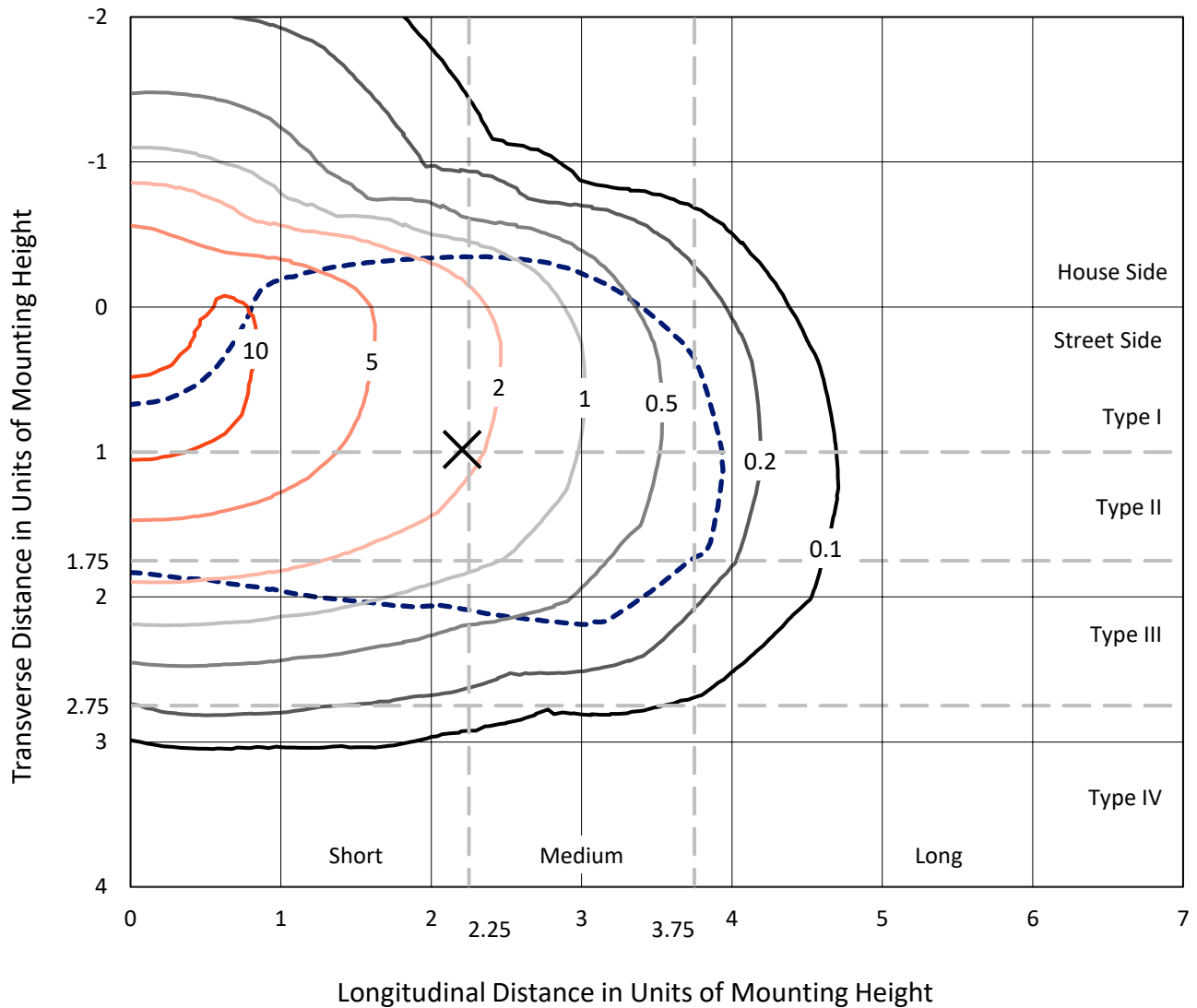
Input Watts (W): 440.1
Input Voltage (V): 120.0
Input Current (Ain): 3.68
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

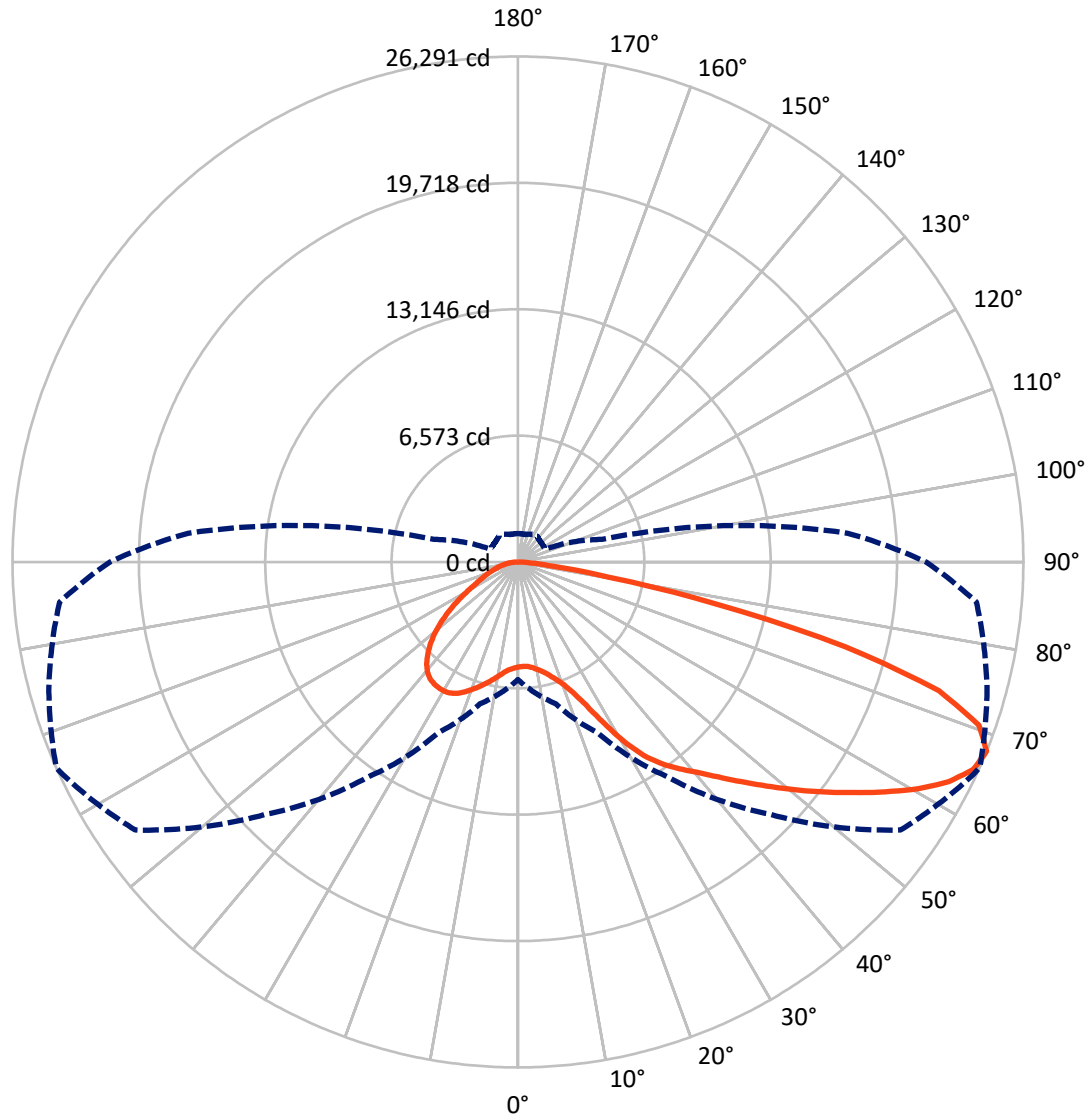
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12246.4	0.0	12246.4
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	37005.6	0.0	37005.6
	% Fixture	75.1	0.0	75.1
Total	Lumens	49252.0	0.0	49252.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	541.6	1.1
10°-20°	1789.4	3.6
20°-30°	3449.0	7.0
30°-40°	6047.3	12.3
40°-50°	8990.3	18.3
50°-60°	11396.1	23.1
60°-70°	11150.8	22.6
70°-80°	5319.1	10.8
80°-90°	568.5	1.2
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°	49252.0	100.0
0°-180°	49252.0	100.0

Coefficient of Utilization

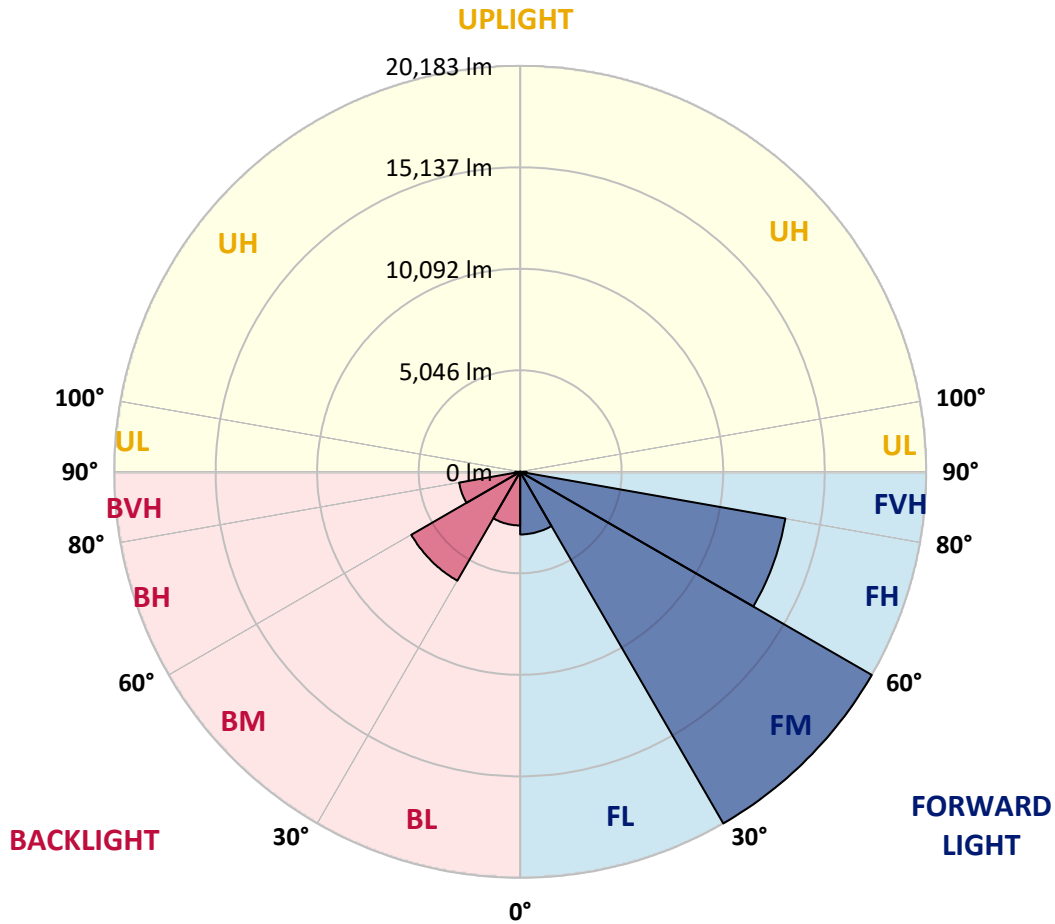


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3112.2	6.3			
FM (30°-60°)	20183.1	41.0			
FH (60°-80°)	13388.0	27.2			G5
FVH (80°-90°)	322.3	0.7			G3/500
BL (0°-30°)	2667.7	5.4	B4/5000		
BM (30°-60°)	6250.7	12.7	B4/8500		
BH (60°-80°)	3081.8	6.3	B4/5000		G4/5000
BVH (80°-90°)	246.2	0.5			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5462.7	5462.7	5462.7	5462.7	5462.7	5462.7	5462.7	5462.7	5462.7	5462.7	5462.7
2.5°	5405.8	5436.8	5429.1	5416.1	5413.5	5418.7	5426.5	5434.2	5431.6	5444.6	5465.3
5°	5390.2	5421.3	5418.7	5418.7	5429.1	5449.8	5462.7	5475.6	5462.7	5478.2	5506.7
7.5°	5400.6	5423.9	5434.2	5444.6	5470.5	5509.3	5540.3	5568.8	5553.3	5571.4	5607.6
10°	5532.6	5550.7	5561.0	5561.0	5579.1	5623.1	5654.2	5705.9	5693.0	5721.5	5768.0
12.5°	5773.2	5791.3	5791.3	5781.0	5793.9	5822.4	5832.7	5889.7	5866.4	5913.0	5959.5
15°	6068.2	6104.5	6076.0	6057.9	6063.1	6091.5	6088.9	6132.9	6109.6	6148.4	6189.8
17.5°	6394.3	6440.9	6394.3	6391.7	6381.3	6412.4	6415.0	6453.8	6412.4	6440.9	6469.3
20°	6779.9	6844.5	6805.7	6818.7	6795.4	6808.3	6821.3	6878.2	6813.5	6834.2	6826.4
22.5°	7323.3	7400.9	7359.5	7408.7	7393.1	7382.8	7380.2	7481.1	7380.2	7388.0	7312.9
25°	8115.1	8208.3	8135.8	8203.1	8203.1	8236.7	8275.6	8404.9	8236.7	8187.6	7993.5
27.5°	9284.8	9377.9	9235.6	9277.0	9264.1	9346.9	9305.5	9626.4	9445.2	9365.0	8974.2
30°	10692.5	10858.1	10589.0	10578.6	10565.7	10697.7	10757.2	10969.4	10785.7	10705.4	10234.5
32.5°	12214.1	12387.5	12066.6	11973.4	11924.3	12004.5	11955.3	12126.1	11999.3	11875.1	11292.9
35°	13823.7	13994.4	13689.1	13507.9	13311.3	13143.1	12967.1	13011.1	12892.1	12703.2	12100.2
37.5°	15345.2	15658.4	15334.9	15140.8	14778.5	14449.9	13958.2	13753.8	13642.5	13469.1	12861.0
40°	16895.3	17073.8	16828.0	16662.4	16269.1	15754.1	14967.4	14535.3	14385.2	14217.0	13702.0
42.5°	18036.5	18207.3	18075.3	17961.4	17653.5	17055.7	16038.7	15497.9	15280.5	15091.6	14654.3
45°	18942.2	19069.0	18986.2	19027.6	18895.6	18316.0	17148.9	16530.4	16305.3	16075.0	15730.8
47.5°	19307.1	19441.6	19573.6	19819.4	20044.6	19617.6	18341.8	17648.3	17410.2	17174.8	16835.8
50°	19265.6	19402.8	19785.8	20308.5	21007.2	20864.9	19599.5	18838.7	18618.7	18349.6	18036.5
52.5°	18934.4	19089.7	19581.4	20450.8	21563.6	21799.0	20880.4	20067.8	19860.8	19539.9	19226.8
55°	18064.9	18158.1	18895.6	20127.4	21695.5	22451.1	22135.4	21377.2	21170.2	20722.5	20381.0
57.5°	16452.8	16587.3	17661.3	19255.3	21364.3	22893.6	23237.8	22753.9	22554.7	21910.3	21553.2
60°	14349.0	14563.7	15792.9	17790.6	20520.7	22891.1	24239.3	24107.3	23941.7	23080.0	22707.3
62.5°	11968.3	12216.7	13399.3	15720.5	19045.7	22241.5	24865.5	25240.7	25155.3	24159.0	23682.9
65°	9191.6	9362.4	10539.8	13042.2	16750.4	20846.8	24938.0	26014.4	26030.0	24979.4	24192.7
67.5°	6120.0	6611.6	7633.8	9786.8	13676.2	18567.0	24301.4	26141.2	26291.3	25261.4	23936.5
70°	2986.2	3633.2	4634.6	6360.6	9786.8	15070.9	22637.5	25101.0	25434.8	24438.5	22409.7
72.5°	1239.5	1449.1	1995.1	3138.9	5618.0	10169.8	19294.1	22280.4	22898.8	21654.1	18841.3
75°	835.8	905.7	1141.2	1609.6	2559.3	5015.0	13914.2	16613.2	17609.5	16354.5	13368.2
77.5°	644.3	688.3	830.7	1125.7	1521.6	1896.8	7447.5	10011.9	10526.9	9745.4	6955.8
80°	507.2	540.8	621.1	820.3	1079.1	1014.4	2538.6	4536.3	4833.9	4055.0	2235.8
82.5°	439.9	452.9	445.1	556.4	716.8	592.6	833.2	1674.3	1847.6	1340.4	729.7
85°	318.3	354.5	370.0	344.2	380.4	300.2	341.6	592.6	652.1	582.2	411.4
87.5°	129.4	191.5	235.5	222.5	139.7	85.4	106.1	173.4	199.3	217.4	134.6
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°	5462.7	5462.7	5462.7	5462.7	5462.7	5462.7	5462.7	5462.7	5462.7	5462.7	5462.7
2.5°	5467.9	5486.0	5498.9	5514.5	5524.8	5540.3	5571.4	5589.5	5592.1	5605.0	5602.4
5°	5517.0	5542.9	5571.4	5612.8	5659.4	5698.2	5757.7	5799.1	5814.6	5827.6	5825.0
7.5°	5623.1	5659.4	5711.1	5783.6	5850.9	5902.6	5975.1	6024.2	6073.4	6091.5	6094.1
10°	5781.0	5832.7	5907.8	6006.1	6078.6	6145.9	6220.9	6262.3	6311.5	6332.2	6342.5
12.5°	5977.7	6032.0	6130.3	6267.5	6334.8	6381.3	6407.2	6396.9	6407.2	6425.3	6430.5
15°	6202.8	6262.3	6373.6	6521.1	6567.7	6526.3	6469.3	6417.6	6409.8	6415.0	6433.1
17.5°	6469.3	6513.3	6642.7	6766.9	6733.3	6562.5	6438.3	6355.5	6314.1	6301.1	6319.2
20°	6842.0	6842.0	6948.1	7025.7	6800.6	6510.7	6316.6	6182.1	6096.7	6060.5	6052.7
22.5°	7294.8	7253.4	7320.7	7266.3	6787.6	6365.8	6096.7	5863.8	5734.4	5682.7	5674.9
25°	7869.3	7820.1	7802.0	7465.6	6694.5	6135.5	5698.2	5416.1	5302.3	5273.8	5279.0
27.5°	8736.2	8612.0	8376.5	7574.3	6523.7	5773.2	5232.4	4971.0	4906.3	4908.9	4916.7
30°	9890.3	9641.9	9064.8	7592.4	6244.2	5260.9	4756.2	4569.9	4538.9	4551.8	4595.8
32.5°	10959.0	10723.6	9768.7	7509.6	5814.6	4758.8	4329.3	4205.1	4158.5	4174.0	4194.7
35°	11797.5	11732.8	10420.8	7393.1	5286.7	4287.9	3946.3	3840.2	3749.6	3728.9	3744.4
37.5°	12589.3	12563.4	10909.9	7230.1	4764.0	3954.1	3638.3	3498.6	3366.6	3294.2	3296.8
40°	13458.8	13432.9	11230.7	6979.1	4300.8	3664.2	3361.5	3177.7	3014.7	2882.7	2895.7
42.5°	14436.9	14284.3	11383.4	6619.4	3907.5	3418.4	3136.3	2887.9	2673.1	2551.5	2559.3
45°	15505.7	15161.5	11380.8	6161.4	3576.2	3193.3	2895.7	2543.7	2344.5	2230.6	2225.4
47.5°	16639.1	15999.9	11241.1	5654.2	3255.4	2944.8	2523.0	2253.9	2121.9	2052.1	2036.5
50°	17808.8	16784.0	11003.0	5072.0	2926.7	2662.8	2290.1	2106.4	2005.5	1940.8	1917.5
52.5°	18908.5	17495.6	10715.8	4412.1	2592.9	2388.5	2186.6	2044.3	1938.2	1865.8	1834.7
55°	19930.7	18108.9	10309.5	3736.7	2321.2	2204.7	2137.5	2018.4	1896.8	1811.4	1777.8
57.5°	20839.0	18507.4	9608.2	3102.7	2127.1	2077.9	2085.7	1974.4	1834.7	1762.2	1715.7
60°	21594.6	18799.9	8570.6	2515.3	1969.3	1953.7	2005.5	1891.6	1728.6	1645.8	1609.6
62.5°	22047.5	18794.7	7297.4	2059.8	1834.7	1839.9	1899.4	1788.1	1622.5	1544.9	1521.6
65°	22008.6	18334.1	5900.0	1762.2	1705.3	1710.5	1788.1	1674.3	1534.5	1487.9	1485.4
67.5°	21229.7	17211.0	4525.9	1568.2	1563.0	1586.3	1676.8	1596.6	1480.2	1475.0	1482.8
70°	19120.7	14879.4	3260.5	1412.9	1415.5	1449.1	1568.2	1547.5	1451.7	1462.1	1459.5
72.5°	15332.3	11344.6	2189.2	1249.9	1252.5	1306.8	1464.7	1508.6	1423.3	1560.4	1581.1
75°	10211.2	7074.9	1407.7	1076.5	1079.1	1149.0	1374.1	1433.6	1345.6	1555.2	1568.2
77.5°	4906.3	3180.3	1019.6	905.7	905.7	970.4	1187.8	1283.5	1146.4	1208.5	1107.5
80°	1695.0	1195.5	802.2	729.7	714.2	758.2	1001.5	1112.7	988.5	910.9	854.0
82.5°	667.6	621.1	644.3	566.7	515.0	543.4	778.9	918.6	727.2	657.3	654.7
85°	383.0	403.7	455.4	375.2	297.6	333.8	571.9	659.9	548.6	483.9	494.3
87.5°	103.5	142.3	209.6	194.1	134.6	142.3	271.7	364.9	315.7	243.2	251.0
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)