

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: P885474

Luminaire Tested: **NAV-SB6D-740-U-SL4**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885474
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-740-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66009 lumens
Efficiency: N/A
Efficacy: 150.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - U0 - G5

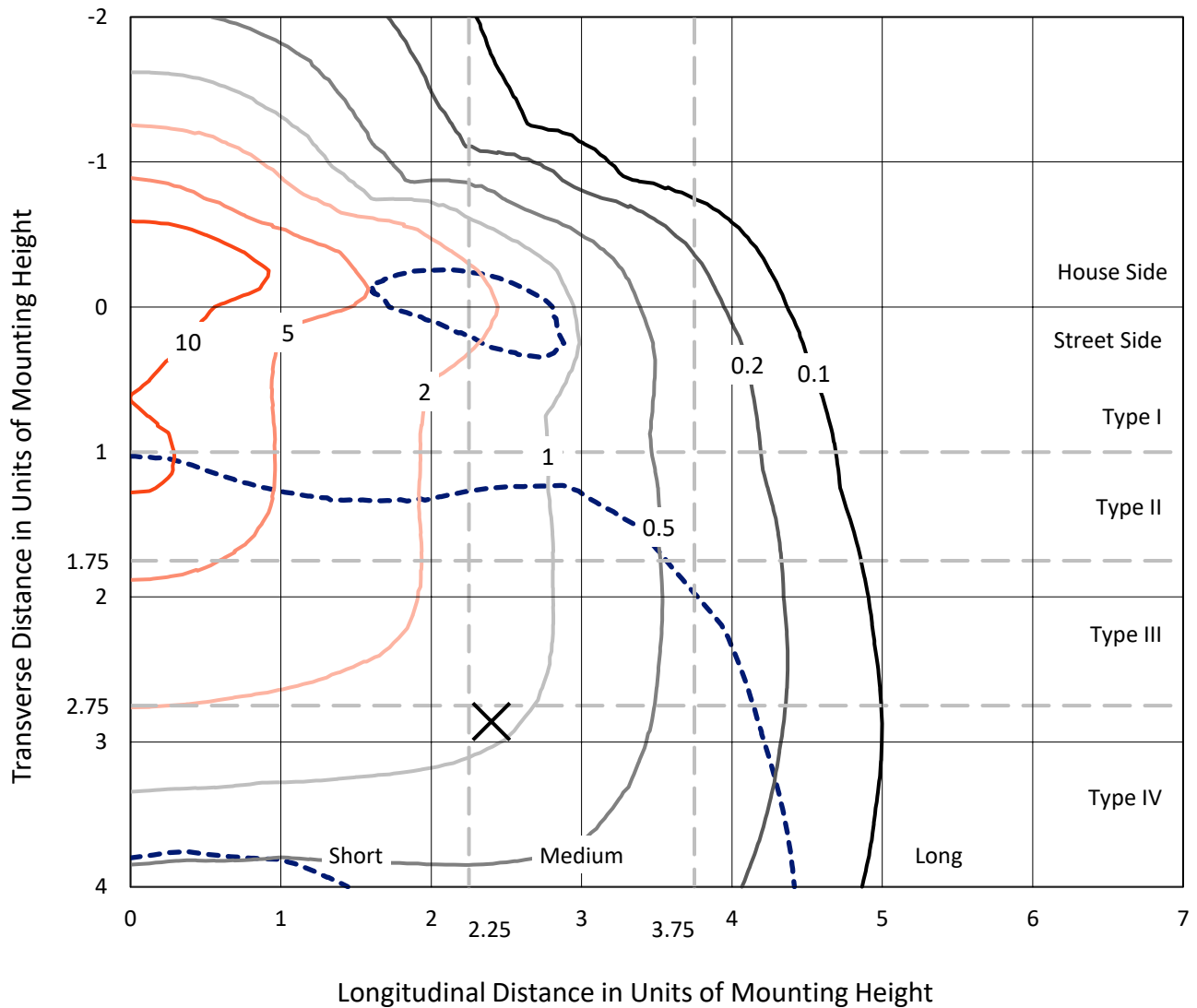
Input Watts (W): 440.1
Input Voltage (V): 120.0
Input Current (Ain): 3.68
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

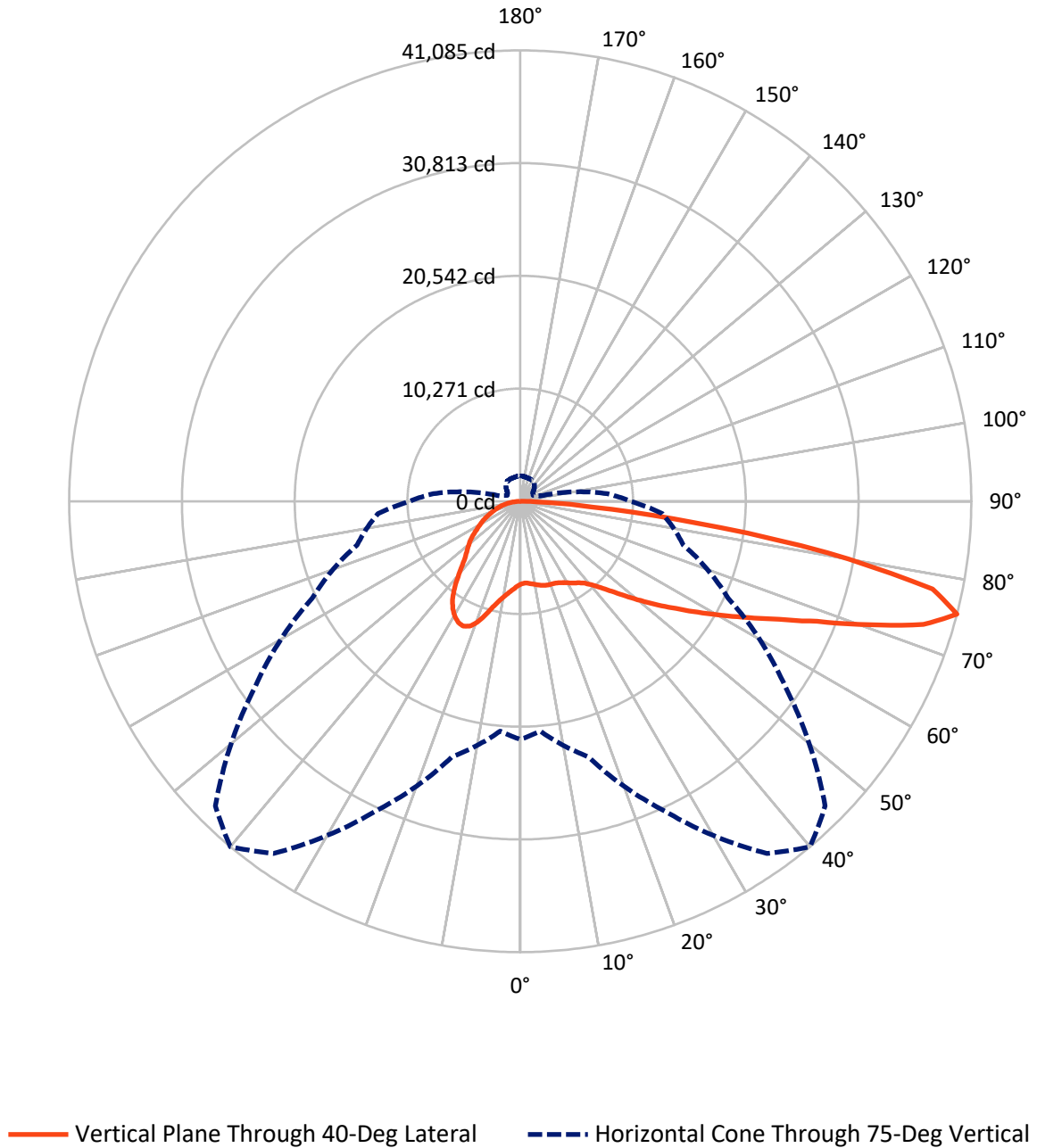
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20451.8	0.0	20451.8
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	45557.2	0.0	45557.2
	% Fixture	69.0	0.0	69.0
Total	Lumens	66009.0	0.0	66009.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	753.5	1.1
10°-20°	2529.7	3.8
20°-30°	4619.0	7.0
30°-40°	6551.0	9.9
40°-50°	8845.9	13.4
50°-60°	11900.1	18.0
60°-70°	15103.9	22.9
70°-80°	13707.7	20.8
80°-90°	1998.2	3.0
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°	66009.0	100.0
0°-180°	66009.0	100.0

Coefficient of Utilization



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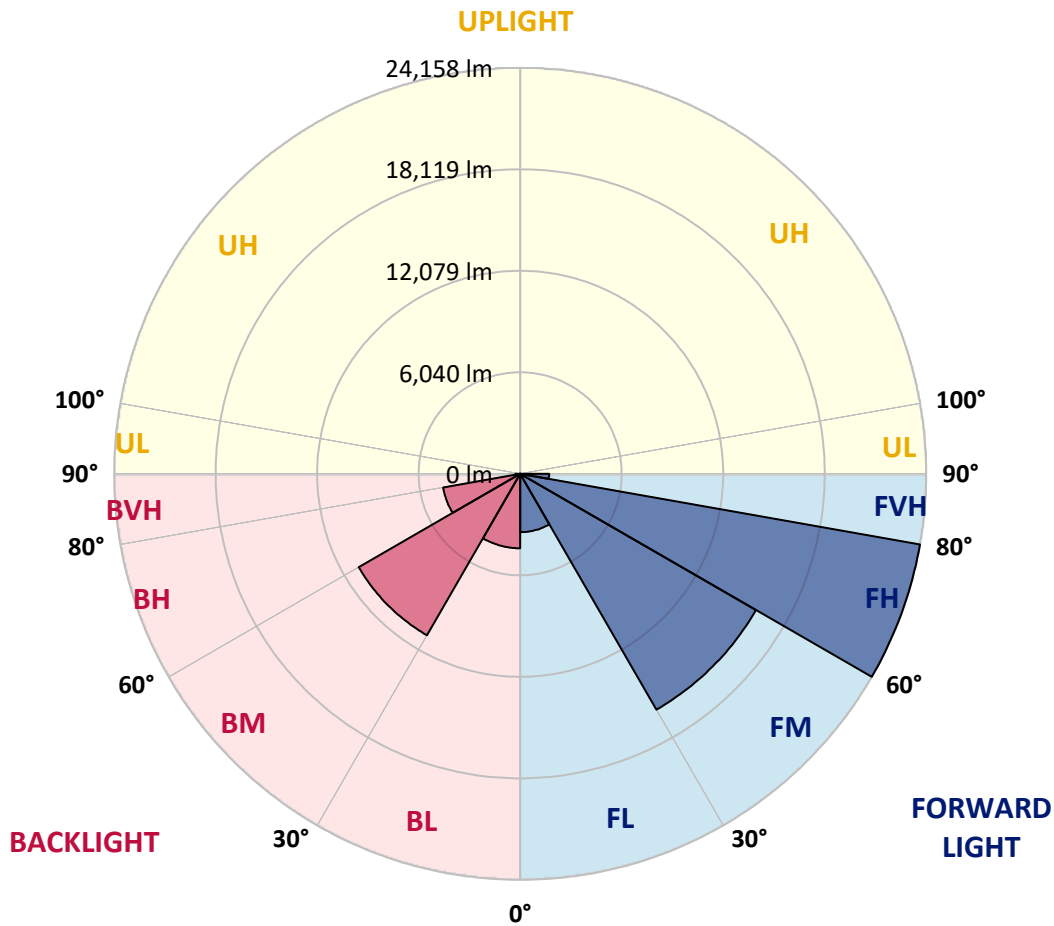
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3472.1	5.3			
FM (30°-60°)	16203.7	24.5			
FH (60°-80°)	24158.3	36.6			G5
FVH (80°-90°)	1723.1	2.6			G5
BL (0°-30°)	4430.0	6.7	B4/5000		
BM (30°-60°)	11093.3	16.8	B5		
BH (60°-80°)	4653.4	7.0	B4/5000		G4/5000
BVH (80°-90°)	275.1	0.4			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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	7548.2	7548.2	7548.2	7548.2	7548.2	7548.2	7548.2	7548.2	7548.2	7548.2	7548.2
2.5°	7432.7	7474.7	7464.2	7450.2	7450.2	7453.7	7450.2	7474.7	7499.2	7523.7	7562.2
5°	7509.7	7551.7	7530.7	7513.2	7499.2	7495.7	7485.2	7481.7	7495.7	7527.2	7579.7
7.5°	7660.3	7702.3	7670.8	7639.2	7611.2	7597.2	7583.2	7562.2	7551.7	7569.2	7642.7
10°	7828.3	7870.3	7831.8	7775.8	7730.3	7712.8	7698.8	7677.8	7663.8	7674.3	7754.8
12.5°	7996.3	8038.4	7985.8	7908.8	7849.3	7838.8	7821.3	7814.3	7810.8	7807.3	7887.8
15°	8153.9	8188.9	8122.4	8031.4	7968.3	7950.8	7933.3	7943.8	7961.3	7982.3	8073.4
17.5°	8276.4	8311.4	8213.4	8094.4	8034.9	8027.9	8017.4	8052.4	8101.4	8153.9	8265.9
20°	8388.5	8423.5	8297.4	8136.4	8066.4	8066.4	8069.9	8143.4	8213.4	8290.4	8444.5
22.5°	8546.0	8574.0	8420.0	8199.4	8097.9	8104.9	8132.9	8206.4	8293.9	8399.0	8612.5
25°	8780.6	8801.6	8612.5	8318.4	8202.9	8223.9	8248.4	8283.4	8367.5	8490.0	8777.1
27.5°	9158.7	9176.2	8927.6	8528.5	8353.5	8388.5	8423.5	8399.0	8437.5	8542.5	8910.1
30°	9690.8	9701.3	9386.3	8857.6	8609.0	8626.5	8633.5	8532.0	8458.5	8542.5	9004.6
32.5°	10321.0	10317.5	9942.9	9256.7	8899.6	8882.1	8822.6	8623.0	8451.5	8525.0	9088.7
35°	11297.8	11259.3	10776.2	9816.9	9228.7	9120.2	8980.1	8724.6	8486.5	8507.5	9162.2
37.5°	12915.3	12796.3	12127.6	10734.2	9718.9	9442.3	9235.7	8889.1	8563.5	8500.5	9249.7
40°	14739.3	14588.8	13853.6	11991.0	10454.1	10009.4	9676.8	9123.7	8689.6	8532.0	9379.3
42.5°	16903.0	16689.4	15898.2	13472.0	11385.3	10741.2	10240.5	9421.3	8875.1	8633.5	9554.3
45°	19560.2	19276.7	18156.3	15141.9	12558.2	11700.4	11031.7	9872.9	9158.7	8829.6	9816.9
47.5°	22245.5	22315.6	20722.6	17053.5	13965.6	12883.8	12022.5	10552.1	9571.8	9144.7	10240.5
50°	25098.9	25147.9	23274.8	19171.6	15562.1	14221.2	13135.9	11311.8	10146.0	9592.8	10874.2
52.5°	27325.5	27332.5	25592.5	21387.8	17225.1	15691.6	14336.7	12180.1	10811.2	10188.0	11717.9
55°	28718.9	28701.4	27217.0	23484.9	19136.6	17235.6	15667.1	13167.4	11623.4	10888.2	12778.8
57.5°	29730.7	29678.2	28337.3	25287.9	21174.2	19059.6	17172.5	14287.7	12582.7	11721.4	14175.7
60°	30115.8	30084.3	29097.0	26845.9	23316.8	21076.2	18909.1	15541.1	13671.5	12705.2	15971.7
62.5°	30262.9	30322.4	29842.8	28354.8	25610.0	23309.8	20817.1	17039.5	14896.9	13818.6	17865.7
65°	30781.0	30889.6	30791.5	30329.4	28200.8	25925.1	23348.4	18821.5	16234.3	15012.4	19843.8
67.5°	31806.8	31915.4	31957.4	32692.6	31365.7	29184.6	26506.3	21041.2	17799.2	16251.8	21331.8
70°	31782.3	31750.8	32493.0	34572.7	35328.9	33697.4	30763.5	23772.0	19665.3	17281.1	21520.8
72.5°	28929.0	28676.9	30430.9	34551.6	38626.8	38409.8	35962.6	27294.0	21275.7	17407.1	18674.5
75°	21702.9	21030.7	24129.1	31138.1	39176.5	41084.6	39267.5	29478.7	20894.1	15380.0	12995.8
77.5°	9281.2	8605.5	12257.1	23050.8	35062.8	38406.3	36235.6	25718.6	16678.9	10170.5	6382.4
80°	2429.7	2426.2	3704.1	10450.6	23845.5	28361.8	24881.8	16608.9	9529.8	3634.1	1761.0
82.5°	1004.8	980.3	1361.9	4064.7	11651.4	15915.7	12988.8	7408.2	3441.5	983.8	584.7
85°	374.6	371.1	661.7	1403.9	4110.2	6564.4	4750.9	1894.1	857.8	479.6	262.6
87.5°	105.0	101.5	143.5	486.6	1001.3	1519.4	812.2	311.6	241.6	189.1	77.0
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°	7548.2	7548.2	7548.2	7548.2	7548.2	7548.2	7548.2	7548.2	7548.2	7548.2	7548.2
2.5°	7572.7	7590.2	7621.7	7646.2	7677.8	7712.8	7761.8	7793.3	7824.8	7845.8	7831.8
5°	7604.2	7642.7	7723.3	7803.8	7898.3	7985.8	8087.4	8160.9	8220.4	8237.9	8244.9
7.5°	7674.3	7737.3	7873.8	8010.4	8160.9	8304.4	8451.5	8577.5	8679.0	8717.6	8721.1
10°	7796.8	7880.8	8073.4	8265.9	8465.5	8686.1	8875.1	9057.2	9200.7	9260.2	9263.7
12.5°	7950.8	8055.9	8307.9	8574.0	8850.6	9155.2	9400.3	9624.3	9802.9	9883.4	9883.4
15°	8150.4	8286.9	8609.0	8966.1	9372.3	9795.9	10107.5	10356.0	10555.6	10653.6	10646.6
17.5°	8367.5	8549.5	8955.6	9494.8	10076.0	10632.6	10996.7	11178.8	11385.3	11479.9	11476.4
20°	8577.5	8801.6	9382.8	10167.0	10940.7	11532.4	11826.5	11875.5	11889.5	11900.0	11928.0
22.5°	8794.6	9095.7	9918.4	11014.2	11844.0	12253.6	12295.6	12085.5	11791.5	11654.9	11693.4
25°	9032.7	9431.8	10618.6	11949.0	12621.2	12670.2	12348.1	11837.0	11280.3	11024.7	11063.2
27.5°	9263.7	9820.4	11458.9	12841.8	13181.4	12750.7	12057.5	11332.8	10660.6	10391.1	10422.6
30°	9494.8	10265.0	12386.6	13622.5	13436.9	12551.2	11598.9	10790.2	10114.5	9830.9	9862.4
32.5°	9729.4	10783.2	13454.5	14186.2	13391.4	12127.6	11028.2	10181.0	9585.8	9288.2	9326.7
35°	9995.4	11420.4	14466.2	14494.3	13086.8	11504.4	10275.5	9452.8	8934.6	8696.6	8749.1
37.5°	10342.0	12229.1	15359.0	14571.3	12554.7	10590.6	9340.7	8591.5	8164.4	8055.9	8132.9
40°	10772.7	13202.4	16041.7	14448.7	11767.0	9480.8	8318.4	7719.8	7478.2	7502.7	7586.7
42.5°	11332.8	14291.2	16521.4	14133.7	10671.1	8335.9	7422.2	7156.1	7271.6	7369.7	7460.7
45°	12061.0	15422.0	16818.9	13598.0	9431.8	7366.2	6893.5	6956.5	7044.1	7054.6	7124.6
47.5°	12992.3	16566.9	17015.0	12789.3	8167.9	6683.5	6557.4	6571.4	6553.9	6480.4	6536.4
50°	14154.7	17680.2	17190.0	11717.9	7093.1	6256.3	6088.3	6039.3	5797.7	5559.6	5591.1
52.5°	15478.0	18702.5	17263.6	10387.6	6256.3	5899.2	5626.2	5318.1	4866.4	4792.9	4817.4
55°	16948.5	19647.8	17074.5	8752.6	5552.6	5440.6	5027.5	4656.4	4607.4	4544.3	4554.8
57.5°	18706.0	20666.6	16689.4	6928.5	4831.4	4904.9	4502.3	4544.3	4456.8	4358.8	4341.3
60°	20628.1	21720.4	16013.7	5265.5	4085.7	4236.2	4365.8	4362.3	4337.8	4257.3	4229.2
62.5°	22357.6	22413.6	14683.3	4033.2	3431.0	3718.1	4071.7	4068.2	4047.2	4001.7	3984.2
65°	23386.9	22308.6	12463.7	3175.4	2891.8	3291.0	3672.6	3700.6	3704.1	3700.6	3700.6
67.5°	23204.8	21079.7	9417.8	2527.7	2447.2	2856.8	3277.0	3315.5	3343.5	3350.5	3357.5
70°	21146.2	18380.4	6140.8	2016.6	2051.6	2475.2	2902.4	2940.9	2965.4	2993.4	3007.4
72.5°	16482.8	13514.0	3515.0	1631.5	1705.0	2146.1	2531.2	2576.8	2590.8	2643.3	2664.3
75°	10044.5	7947.3	1897.6	1284.9	1400.4	1834.5	2163.6	2216.2	2240.7	2303.7	2310.7
77.5°	4775.4	3441.5	1081.8	1001.3	1127.3	1498.4	1827.5	1887.1	1820.5	1855.5	1827.5
80°	1614.0	1277.9	682.7	763.2	861.3	1169.3	1463.4	1522.9	1382.9	1375.9	1361.9
82.5°	563.7	518.2	434.1	507.6	556.7	836.7	1106.3	1183.3	1029.3	1025.8	976.8
85°	220.6	210.1	241.6	276.6	332.6	514.7	728.2	766.7	633.7	511.2	504.1
87.5°	45.5	49.0	59.5	63.0	101.5	178.6	262.6	322.1	255.6	217.1	199.6
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)